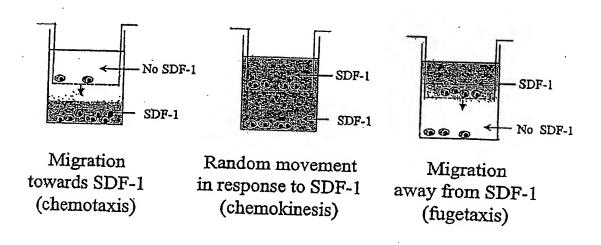
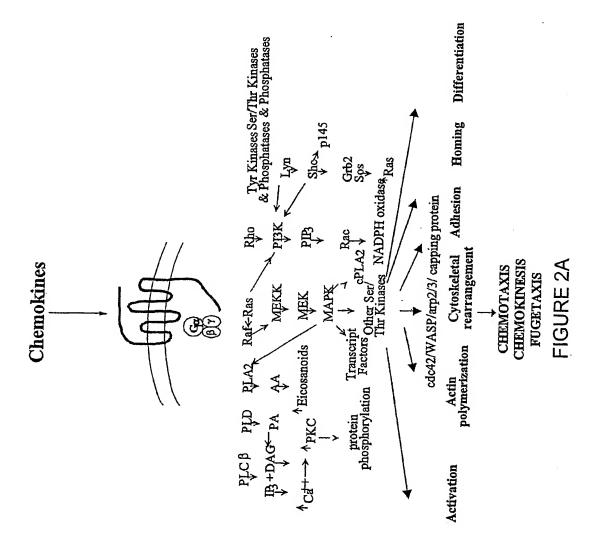


T-cell Transmigration Assays







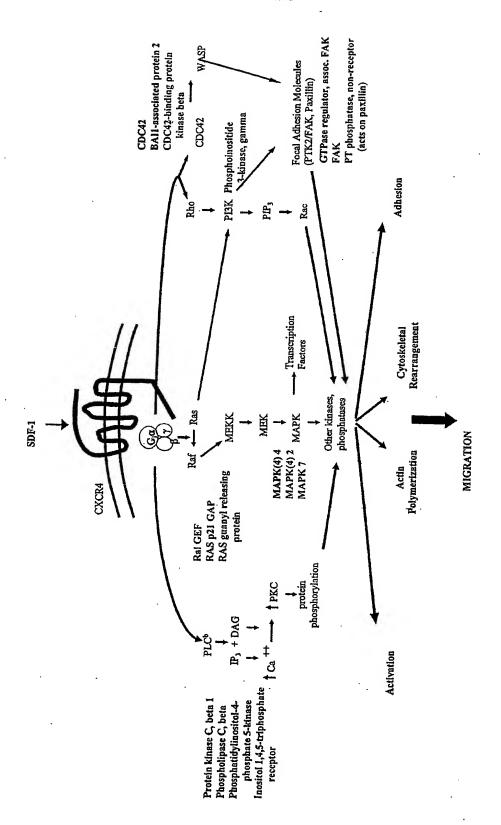


FIGURE 2B



Table 1 Differential Gene Expression in Chemokinesis vs Medium SDF-1 Gradients

UP REGULATED IN CHEMOKINESIS COMPARED TO MEDIUM SDF-1 GRADIENTS

01 1	EGULATED IN CHEMOKINESIS COMPARED TO MEDIUM SDF-1 GRADIENTS
8.54	Hs.223014 antizyme inhibitor
6.88	The protein tyrosite kinase 2
6.62	1
5.45	The second support of
5.38	1 The state of the
4.97	Hs.18895 tousled-like kinase 1
4.69	Hs.76536 Iransducin (beta)-like 1
3.95	
3.89	Hs.82985 collagen, type V, alpha 2
3.73	Hs.7358 hypothetical prolein FLJ13110
3.70	Hs.75231 solute carrier family 16 (monocarboxylic acid transporters), member 1
3.67	Hs.236646 homeo box D9
3.64	Hs.9701 growth arrest and DNA-damage-inducible, gamma
3.63	Hs.73793 vascular endothelial growth factor
3.62	gb:BC006233.1/DEF=Homo sapiens, ketohexokinase (fructokinase), clone MGC:10370, mRNA, complete cds
3.52	Hs.171814 parathymosin
3.45	Hs.2969 v-ski avlan sarcoma viral oncogene homolog
3.39	Hs.321223 keralin 6B
3.33	Hs.139648 KIAA0706 gene product
3.32	Hs.66309 Hama saniens. Similar to DIKEN aDNA garages in a
3.22	Hs. 66309 Homo saplens, Similar to RIKEN cDNA 2310034L04 gene, clone MGC:11061, mRNA, complete cds Hs. 54505 aquaporin 6, kidney specific
3.13	Hs 84285 ubiquitin contraction and the second secon
3.05	Hs.84285 ubiquitin-conjugating enzyme E2I (homologous to yeast UBC9) Hs.135626 chymase 1, mast cell
3.00	Hs.249216 H2B histone family, member J
3.00	Hs.288650 aquaporin 4
2.95	
2.00	Hs.82085 serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
2.93	Hs.287763 Human DNA sequence from clone RP1-23O21 on chromosome 6. Contains acidic calponin 3
2.92	Hs.322680 Homo saplens cDNA: FLJ21547 fls, clone COL06206
2.91	Hs.301667 Homo saplens mRNA; cDNA DKFZp566I043 (from clone DKFZp566I043)
2.90	gb:BC006114.1 /DEF=Homo saplens, Similar to cholinergic recentor, picotinic, alpha polymontide 3, alana
2.88	
2.50	Hs. 173594 serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1
2.85	Hs.162200 urotensin 2
2.84	Hs.24385 Human hbc647 mRNA sequence
2.80	Hs.280380 aminopeptidase
2.75	Hs.25732 eukaryotic translation initiation factor 4 gamma, 3
2.70	Hs.79876 steroid sulfatase (microsomal), aryisulfatase C, isozyme S
2.66	Hs.306243 Homo saplens thioredoxin delta 3 (TXN delta 3) mRNA, partial cds
2.64	Hs.2388 apolipoprotein F
2.63	Hs.292787 ESTs
2.62	Hs.34114 ATPase, Na+K+ transporting, alpha 2 (+) polypeptide
2.62	Hs.82065 Interleukin 6 signal transducer (gp130, oncostatin M receptor)
2.62	Hs.271926 serologically defined colon cancer antigen 16
2.60	Hs. 15791 transmembrane 7 superfamily man band 6
2.60	Hs. 15791 transmembrane 7 superfamily member 1 (upregulated in kidney)
2.55	Hs.136075 Homo sapiens cDNA: FLJ23438 fis, clone HRC13275
2.54	Hs. 121068 transmembrane 4 superfamily member 6
	Hs.182740 ribosomal protein S11
2.53	Hs.82280 regulator of G-protein signalling 10
2.52	Hs.239114 mannosidase, alpha, class 1A, member 2
2.52	Hs.302022 PR domain containing 16
2.51	Hs.110903 claudin 5 (transmembrane protein deleted in velocardiofacial syndrome)
	Sheet Loss



C 0.00		
2.50	(activating enhancer-binding protein 4)	-
2.50	Hs.293334 ESTs	-
2.49	1 to to the description releasing normone receptor 2	
2.46	Hs.286233 sperm autoantigenic protein 17	_
2.38	1 I I I I I I I I I I I I I I	_
2.34	Hs.24322 ATPase, H+ transporting, lysosomal (vacuolar proton pump) 9kD	_
2.34	Hs.154/62 HIV-1 rev binding protein 2	_
2.32	Hs.84152 cystathionine-beta-synthase	_
2.31	Hs.96 phorbol-12-myristate-13-acetate-induced protein 1	_
2.31	Hs.247043 type 1 tumor necrosis factor receptor shedding aminopeptidase regulator	_
2.30	Hs.55481 zinc finger protein 165	_
2.29	Hs.8074 brain-specific angiogenesis inhibitor 3	_
2.29	Hs.103978 serinethreonine kinase 22B (spermiogenesis associated)	_
2.27	Hs.306618 Homo sapiens cDNA FLJ11930 ffs, clone HEMBB1000441	_
2.26	Hs.194669 enhancer of zeste (Drosophila) homolog 1	4
2.26	Hs.16488 calreticulin	_
2.25	Hs.305979 Homo sapiens clone FLB3024 PRO0756 mRNA, complete cds	4
2.25	Hs.79170 KIAA0227 protein	4
2.23	Hs.306602 Homo sapiens cDNA FLJ11514 fis, clone HEMBA1002229	4
2.22	Hs.223241 eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)	┙
2.21	Hs.79042 neuromedin B receptor	_
2.19	Hs.93304 phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)	4
2.19	Hs.247741 protocadherin alpha 2	4
2.19	Hs.16488 calreticulin	4
2.18	Hs.129928 KIAA0477 gene product	4
2.17	Hs.54481 low density lipoprotein receptor-related protein 8, applicantotein e recentor	4
2.17	Hs.133130 Homo sapiens mRNA; cDNA DKFZp566H0124 (from clone DKFZp566H0124)	4
2.17	Hs.306778 Homo sapiens cDNA: FLJ21524 fis, clone COL05921	4
2.16	Hs.239176 insulin-like growth factor 1 receptor	4
2.13	Hs.53973 vasoactive intestinal peptide	4
2.13	Hs.262869 plasminogen-like	4
2.12	Hs.86958 Interferon (alpha, beta and omega) receptor 2	1
2.09	Hs.86368 calmegin	1
2.07	Hs.169488 dentatorubral-pallidoluysian atrophy (atrophin-1)	ł
2.07	Hs.21838 hypothetical protein FLJ11191	ł
2.07	Hs.28777 H2A histone family, member L	Į
2.05	Hs.199538 inhibin, beta C	Į
2.05	Hs.272529 glycosylphosphatidylinositol specific phospholipase D1	l
2.05	Hs.248999 ESTs	ı
2.04	Hs.39328 /len=463	ĺ
2.04	Hs.287809 Human HOX-2.5 gene for homeodomain protein, partial	1
2.02	Hs.64639 glioma pathogenesis-related protein	
2.02	Hs.274402 heat shock 70kD protein 1B	
2.01	Hs.56145 thymosin, beta, identified in neuroblastoma cells	1
2.00	Hs.151641 glycoprotein A repetitions predominant	
2.00	Hs.69547 myelin basic protein	
1.97	Hs.180919 inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	
1.94	Hs.5327 PRO1914 protein	
1.93	Hs.85302 adenosine deaminase, RNA-specific, B1 (homolog of rat RED1)	
1.92	Hs.118786 metallothlonein 2A	
1.92	Hs.278572 anaplastic lymphoma kinase (Ki-1)	
1.91	Hs.315463 suppression of tumorigenicity 16 (melanoma differentiation)	
1.91	Hs.159526 patched (Drosophila) homolog	



4.4	
1.91	Hs.24322 ATPase, H+ transporting, lysosomal (vacuolar proton pump) 9kD
1.90	HS.25/32 eukaryotic translation initiation factor 4 gamma 3
1.90	Hs.288771 DKFZP586A0522 protein
1.89	Hs.180919 inhibitor of DNA binding 2, dominant negative heliv loop heliv protein
1.89	Ins.42244 Homo sapiens mRNA; cDNA DKFZn564A023 (from clone DKFZn564A023)
1.89	Hs.82101 pleckstrin homology-like domain, family A, member 1
1.89	Hs.279582 GTP-binding protein Sara
1.84	Hs.306639 Homo saplens cDNA FLJ12624 fis, clone NT2RM4001754
1.83	Hs.55075 KIAA0410 gene product
1.83	Hs.142023 T cell activation, increased late expression
1.83	Hs.180919 inhibitor of DNA binding 2, dominant negative helix-loop-helix protein
1.82	Hs.64639 glioma pathogenesis-related protein
1.80	Hs.48778 niban protein
1.79	Hs.36927 heat shock 105kD
1.79	
1.78	Hs.4147 translocating chain-associating membrane protein
1.78	Hs.75574 milochondrial ribosomal protein L19
1.78	Hs.135202 c-myc promoter-binding protein
1.78	Hs.298014 Homo sapiens cDNA FLJ14136 fis, clone MAMMA1002744
	Hs.198267 mucin 4, tracheobronchial
1.78	Hs.113009 hypothetical protein FLJ22527
1.77	Hs.76064 ribosomal protein L27a
1.76	Hs.8786 carbohydrate (chondroitin 6keratan) sulfotransferase 2
1.76	Hs.75825 pleiomorphic adenoma gene-like 1
1.74	Hs.75825 pleiomorphic adenoma gene-like 1
1.72	Hs.26613 Homo sapiens mRNA; cDNA DKFZp586F1323 (from clone DKFZp586F1323)
1.71	Hs.3886 karyopherin alpha 3 (importin alpha 4)



DOW	REGULATED IN CHEMOKINESIS COMPARED TO MEDIUM SDF-1 GRADIENTS
-8.38	Hs.12142 WD repeal domain 13
-8.18	
-6.29	
-6.24	
-6.08	Hs.99863 elastase 2, neutrophil
-5.87	The state of the s
-5.22	1 Total distriction of the state of the
-5.14	(Sinair Ceiriung Carcinoma ciuster 4 antigen)
-4.87	Hs.25817 BTB (POZ) domain containing 2
-4.87	Hs 193716 complement containing 2
-4.75	1 The state of the
-4.56	Hs.26319 KIAA0833 protein
-4.54	ristance is the cooos protein
-4.49	He 457 funcionary (Control of the Control of the Co
-4.40	Hs.457 fucosyltransferase 7 (alpha (1,3) fucosyltransferase)
-4.36	Hs.79340 PTH-responsive osteosarcoma B1 protein
-4.22	Hs. 198037 KIAA0599 protein
-4.21	Hs.104555 neuropeptide FF-amide peptide precursor
-4.21	Hs.76930 synuclein, alpha (non A4 component of amyloid precursor)
-4.07	Hs.286124 CD24 antigen (small cell lung carcinoma cluster 4 antigen)
-3.88	Hs.234642 aquaporin 3
-3.88	Hs.89535 bactericidalpermeability-increasing protein
-3.84	Hs.88411 lymphocyte antigen 117
-3.81	Hs.58362 hypothetical protein FLJ12681
-3.72	Hs.154567 supervillin
-3.72	Hs.73839 ribonuclease, RNase A family, 3 (eosinophil cationic protein)
-3.72	Hs.272108 ESTs
-3.65	CD24 antigen (small cell lung carcinoma cluster 4 antigen)
-3.65	Hs.75498 small inducible cytokine subfamily A (Cys-Cys), member 20
-3.63	Hs.159454 ESTs
-3.33	Hs.76289 biliverdin reductase B (flavin reductase (NADPH))
-3.33	Hs.150917 catenin (cadherin-associated protein), alpha 2
	Hs.296941 H factor (complement)-like 2
-3.20	Hs.26994 hypothetical protein FLJ20477
-3.19	Hs.318885 superoxide dismutase 2, mitochondrial
-3.18	Hs.18889 DKFZP434M183 protein
-3.10	Hs.2962 S100 calcium-binding protein P
-3.05	Hs.181353 UDP-Gal;betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2
-3.03	Hs.286124 CD24 antigen (small cell lung cardnoma cluster 4 antigen)
-2.97	Hs.80741 propionyl Coenzyme A carboxylase, alpha polypeptide
-2.96	Hs.572 prosomucoid 1
-2.96	Hs.332045 Homo sapiens cDNA FLJ20161 fis, clone COL09252, highly similar to L33930 Homo sapiens CD24
-2.87	Hs.251754 secretory leukocyte protease inhibitor (antileukoproteinase)
	Hs.30898 KIAA0634 protein
	Hs.2582 defensin, alpha 4, corticostatin
-2.76	Hs.1174 cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4)
-2.76	Hs.8109 hypothetical protein FLJ21080
-2.73	Hs.7258 hypothetical protein FLJ22021
	aquaporin 3
-2.66	Hs. 153934 core-binding factor, runt domain, alpha subunit 2; translocated to, 2
-2.00	Hs. 193716 complement component (3b4b) receptor 1, including Knops blood group system



Table 1 Differential Gene Expression in Chemokinesis vs Medium SDF-1 Gradients

-2.59	Hs.814 major histocompatibility complex, class II, DP beta 1
-2.59	Hs.1619 achaete-scute complex (Drosophila) homolog-like 1
-2.58	Hs.100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7
-2.56	Hs.189109 hypothetical protein FLJ21458
-2.55	Hs.328822 haptoglobin-related protein
-2.55	
-2.54	Hs.100823 phospholipase C, beta 3, neighbor pseudogene
-2.53	Hs.103382 phospholipid scramblase 3
-2.50	Hs.193122 Fc fragment of IgA, receptor for
-2.49	Hs.153952 5 nucleotidase (CD73)
-2.49	Hs.322422 Homo sapiens cDNA FLJ11676 fis, clone HEMBA1004752, highly similar to Homo sapiens mRNA
-2.48	Hs.204238 lipocalin 2 (oncogene 24p3)
-2.45	gb:AF251061.1 /DEF=Homo sapiens neurocalcin mRNA, complete cds.
-2.45	Hs.192662 hypothetical protein FLJ10469
-2.44	Hs.241053 ESTs
-2.43	Hs.288300 hypothetical protein FLJ23231
-2.42	Hs.323864 nudix (nucleoside diphosphate linked moiety X)-type motif 6
-2.41	Hs.7531 KIAA0810 protein
-2.40	Hs.7252 KIAA1224 protein
-2.40	Hs.12229 TGFB inducible early growth response 2
-2.37	Hs.72964 makorin, ring finger protein, 3
-2.36	Hs.272205 hypothetical protein FLJ10034
-2.34	Hs.10082 potassium intermediatesmall conductance calcium-activated channel, subfamily N, member 4
-2.32	ris.300/11 annexin A5
-2.32	Hs.914 Human mRNA for SB classil histocompatibility antigen alpha-chain
-2.31	Hs.278503 regulated in glioma
-2.30	Hs.75703 small inducible cytokine A4 (homologous to mouse Mip-1b)
-2.26	Hs.75811 N-acylsphingosine amidohydrolase (acid ceramidase)
-2.25	Hs.81256 S100 calcium-binding protein A4 (calcium protein calvascutin metastasia autismost allegations)
-2.25	[Manualogy
-2.24	Hs.3066 granzyme K (serine protease, granzyme 3; tryptase II)
-2.23	Hs.71746 hypothetical protein FLJ11583
-2.23	Hs.155191 villin 2 (ezrin)
-2.23	Hs.159263 collagen, type VI, alpha 2
-2.23	Hs.21497 Homo sapiens, clone IMAGE:3629898, mRNA, partial cds
-2.22	Hs.9973 tensin
-2.18	Hs.119274 RAS p21 protein activator (GTPase activating protein) 3 (Ins(1,3,4,5)P4-binding protein)
-2.16	Hs.15984 pp21 homolog
-2.16	Hs.99491 RAS guanyl releasing protein 2 (calcium and DAG-regulated)
-2.15	Hs.17409 cystelne-rich protein 1 (intestinal)
-2.15	Hs.76297 G protein-coupled receptor kinase 6
	Hs.152981 CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1
-2.14	Hs.957 putative opioid receptor, neuromedin K (neurokinin B) receptor-like
	Hs. 168132 interleukin 15
-2.10	Hs.79021 tafazzin (cardiomyopathy, dilated 3A (X-linked); endocardial fibroelastosis 2; Barth syndrome)
-2.07	Hs.31659 thyrold hormone receptor-associated protein, 95-kD subunit
-2.05	Hs.167017 gamma-aminobutyric acid (GABA) B receptor, 1
-2.05	Hs.301289 Homo saplens cDNA FLJ12427 fis, clone MAMMA1003127, highly similar to MYOSIN I ALPHA
-2.02	ns. 103147 hypothetical protein FLJ21347
-2.02	Hs.7188 hypothetical protein FLJ20369
-2.01	Hs.29656 cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4)
-2.01	Hs.303289 Homo saplens cDNA FLJ14096 fis, clone MAMMA1000752
-2.01	Hs.293699 hypothetical protein FLJ20495
	Shorts CC

Sheet 5 of 6



0.00	
-2.00	
-1.99	22 (diganic candi transporter), member 1-like
-1.99	
-1.98	Hs. 195464 filamin A, alpha (actin-binding protein-280)
-1.96	Hs.198252 G protein-coupled receptor 9
-1.96	Hs.56186 EGF-like-domain, multiple 3
-1.95	Hs.74034 Homo sapiens clone 24651 mRNA sequence
-1.95 -1.94	Hs.11809 single ig IL-1R-related molecule
-1.94	Hs.2551 adrenergic, beta-2-, receptor, surface
-1.93	Hs. 154299 coagulation factor II (thrombin) receptor-like 1
-1.90	Hs. 195464 filamin A, alpha (actin-binding protein-280)
-1.89	Hs.100071 6-phosphogluconolactonase
-1.89	Hs.79601 /len=613
-1.88	Hs.195464 filamin A, alpha (actin-binding protein-280) Hs.11809 /ien=525
-1.87	Hs.94382 adenosine kinase
-1.87	
-1.85	Hs.134514 ATP-binding cassette, sub-family A (ABC1), member 7 Hs.64310 Interleukin 11 receptor, alpha
-1.83	Hs 78000 hybride secretary factor 0.7505
-1.81	Hs.78909 butyrate response factor 2 (EGF-response factor 2) PTH-responsive osteosarcoma B1 protein
-1.81	Hs.31290 Homo sapiens clone 23832 mRNA sequence
-1.81	Hs.30783 hypothetical protein FLJ20850
-1.81	Hs.9196 hypothetical protein
	Hs.332173 transducin-like enhancer of split 2, homolog of Drosophila E(sp1)
-1.79	Hs.4764 KIAA0763 gene product
-1.79	Hs.14770 bridging integrator 2
-1.79	Hs.178011 hypothetical protein FLJ20257
-1.79	Hs.13405 gephyrin
-1.78	gb:M18728.1 /DEF=Human nonspecific crossreacting antigen mRNA, complete cds.
-1.77	Hs.76240 adenylate kinase 1
-1.75	Hs.79404 neuron-specific protein
-1.74	Hs.106061 RD RNA-binding protein
-1.74	Hs.8297 ribonuclease 6 precursor
-1.73	Hs.115907 diacylglycerol kinase, delta (130kD)
-1.73	Hs.40300 calpain 3, (p94)
-1.73	Hs.16193 Homo sapiens mRNA; cDNA DKFZp586B211 (from clone DKFZp586B211)
-1.73	Hs.321197 PDZ domain protein (Drosophila inaD-like)
-1.73	Hs.7212 hypothetical protein PP1044
	Hs.181780 hypothetical protein FLJ20241
	Hs.182982 golgin-67
-1.72	Hs.132807 Homo sapiens (clone 3.8-1) MHC class I mRNA fragment
	Hs.193163 bridging Integrator 1
	Hs.115460 calicin
-1.71	Hs.193163 bridging Integrator 1
-1.70	Hs.75450 delta sleep inducing peptide, immunoreactor
	ls.1432 protein kinase C substrate 80K-H
-1.70	ds.6150 Rho-specific guanine nucleotide exchange factor p114



Table 2 Differential Gene Expression in Fugetaxis vs Chemotaxis SDF-1 Gradients

UP REGULATED IN FUGETAXIS COMPARED TO CHEMOTAXIS SDF-1 GRADIENTS 11.00 Hs.75184 chitinase 3-like 1 (cartilage glycoprotein-39) 8.12 Hs.79658 casein kinase 1, epsilon 6.17 Hs.7358 hypothetical protein FLJ13110 5.66 Hs.89535 bactericidalpermeability-increasing protein Hs.100000 S100 calcium-binding protein A8 (calgranulin A) 5.57 Hs.182740 ribosomal protein S11 Hs.78913 chemokine (C-X3-C) receptor 1 5.15 Hs.81665 v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog 5.07 Hs.247989 Human Immunoglobulin heavy chain variable region (V4-30.2) gene, partial cds 5.02 4.93 Hs.146409 cell division cycle 42 (GTP-binding protein, 25kD)
4.71 Hs.3076 MHC class II transactivator gb:AF262973.1 /DEF=Homo saplens killer cell immunoglobulin-like receptor 3DL1 (KIR3DL1) mRNA, 4.70 KIR3DL1*00701 allele, complete cds. gb:NM_000961.1 /DEF=Homo saplens prostaglandin I2 (prostacyclin) synthase (PTGIS), mRNA 4.57 4.44 Hs.2962 S100 calcium-binding protein P 4.37 Hs.127384 DKFZP564C196 protein 4.34 Hs.108502 hypothetical protein FLJ20150 4.33 Hs.56328 killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2 4.28 Hs.75137 KIAA0193 gene product 4.21 Hs.57975 calsequestrin 2 (cardiac muscle) Hs.44579 hypothetical protein FLJ20199 4.12 Hs,326737 Homo sapiens, clone MGC:4655, mRNA, complete cds 3.99 Hs.13040 G protein-coupled receptor 86 Hs.75106 clusterin (complement lysis inhibitor, SP-40,40, sulfated glycoprotein 2, testosterone-repressed prostate message 2, apolipoprotein J) 3.98 Hs.75990 haptoglobin 3.96 3.91 Hs.6164 hypothetical protein FLJ10698 Hs.193783 Human DNA sequence from clone RP13-329D4 on chromosome 20 Contains ESTs, STSs, GSSs and a CpG island. Contains the 3 part of a novel gene, a gene similar to NCOR1 for a truncated form of nuclear receptor co-repressor 1 (retinoid X receptor Inte 3.80 Hs.274272 hypothetical protein FLJ10232 Hs.111867 GLI-Kruppel family member GLI2 3.78 Hs.75105 emopamil-binding protein (sterol isomerase) Hs.116651 epithelial V-like antigen 1 Hs.223014 antizyme inhibitor Hs.180884 carboxypeptidase B1 (tissue) 3.64 3.64 Hs.314762 Horno sapiens partial IGKV gene for immunoglobulin kappa chain variable region, clone 30 Hs.80620 guanine nucleotide exchange factor for Rap1; M-Ras-regulated GEF 3.58 Hs.44278 hypothetical protein FLJ12538 similar to ras-related protein RAB17 3.57 Hs.29417 HCF-binding transcription factor Zhangfei 3.56 Hs.105859 hypothetical protein FLJ10280 Hs.154495 acetylcholinesterase (YT blood group) 3.55 3.54 Hs.287269 chorlonic somatomammotropin hormone-like 1 Hs.2582 defensin, alpha 4, corticostatin Hs.98658 budding uninhibited by benzimidazoles 1 (yeast homolog) 3.45 Hs.226014 Human DNA sequence from clone 240B8 on chromosome 6p11.2-q12. Contains the 3 part of a gene for a novel protein similar to T-STAR, Etolle, Sam68, SLM1 and p62 Tyrosine Phosphoprotein. Contains ESTs, STSs, GSSs and genomic marker D6S1695 3.42 Hs.33102 transcription factor AP-2 beta (activating enhancer-binding protein 2 beta) 3.34 Hs.18894 /len=982 3.29 Hs.287539 hypothetical protein FLJ12662

3.28 Hs.114316 sialyltransferase 8C (alpha2,3Galbeta1,4GicNAcaipha 2,8-sialyltransferase)

3.27 Hs.323511 Homo saplens cDNA: FLJ23176 fis, clone LNG10452

3.17 Hs.85181 v-raf-1 murine leukemia viral oncogene homolog 1 3.16 Hs.273621 Homo saplens cDNA: FLJ21350 fis, done COL02751

3.23 Hs.298469 anglotensin I converting enzyme (peptidyl-dipeptidase A) 1

3.24 Hs.89839 EphA1

3.18 Hs.314452 fibrousheathin II



3.1	1 Hs.88411 lymphocyte antigen 117	
3.1		_
3.1		_
3.0		_
3.0	9 190.0000 190.1 /DEP=Momo sabiens, tumor necrosis factor recentor cuporformity, manhana	, -
3.0	mRNA, complete cds.	•••
3.0		_
	173.172740 IIIICIOLUDUIE-ASSOCIATED PROTEIN RPER family member 3	_
2,9	The state of the s	_
	9 Ins./5294 controtropin releasing hormone	7
2.9	The state of the s	-
2.9	7 Ins.270984 calcium binding protein 2	-
2.9		4
2.9		⊣
2.9	gb:NM_030876.1 /DEF=Homo sapiens olfactory receptor, family 5, subfamily V member 1 (ORS)(4) and 1	-
2.9	7 17 19 19 19 19 19 19 19 19 19 19 19 19 19	-1
2.90	The control of the co	ᅱ
2.9	HIS.03746 KIAAU318 protein	┩
2.95		4
2.91		4
2.90	Hs.137569 tumor protein 63 kDa with strong homology to p53	4
2.89	Hs.128749 alpha-methylacyl-CoA racemase	4
2.88	Hs.93758 H4 histone family, member H	4
2.84	Hs.7936 BAI1-associated protein 2	4
2.84	Hs.15165 novel retinal pigment epithelial gene	4
2.82	Hs.16488 calreticulin	┚
2.81	Hs.79706 plectin 1, intermediate filament binding protein, 500kD	1
2.81	Hs.98485 gap junction protein, bela 3, 31kD (connexin 31)	1
2.80	Hs.246107 elongation of very long chain fatty acids (FEN1Elo2, SUR4Elo3, yeast)-like 2	1
2.80	Hs.287644 hypothetical protein FLJ20972	1,
2.76	Hs.10755 dihydropyrimidinase	ŀ
2.76	Hs.4 alcohol dehydrogenase 2 (class I), beta polypeptide	1
2.75	Hs.73839 ribonuclease, RNase A family, 3 (eosinophil cationic protein)	1
2.75	Hs.199250 chloride channel 4	J
2.73	Hs.198427 hexokinase 2	1
2.72	Hs.274127 CLST 11240 protein	J
2.71	Hs.70823 KIAA1077 protein]
2.69	Hs.75280 mitogen inducible 2	1
2.68	Hs.302022 PR domain containing 16	
2.67	Hs.621 lectin, galactoside-binding, soluble, 3 (galectin 3)]
2.65	Hs.287872 hypothetical protein FLJ14106	l
2.65	Hs.123062 Human mRNA for T cell receptor, clone IGRA24	ı
2.62	Hs.83484 SRY (sex determining region Y)-box 4	
2.62	Hs 30/138 Human DNA	
	Hs.307138 Human DNA sequence from clone RP3-508D13 on chromosome 6 Contains a heat shock protein DNAJ pseudogene, ESTs, STSs and GSSs	
2.62	Hs.151449 KIAA0535 gene product	
2.60	Hs.1310 CD1B antigen, b polypeptide	i
2.59	Hs.6580 Home saniger CNNA EL 192227 6. de 04500	l
	Hs.6580 Homo sapiens cDNA: FLJ23227 fis, clone CAE00645, highly similar to AF052138 Homo sapiens clone 23718 mRNA sequence	
2.59	gb:NM_030788.1 /DEF=Homo saplens DC-specific transmembrane protein (LOC81501), mRNA.	
2.59	Hs. 132942 GTPase regulator associated with the focal adhesion kinase pp125(FAK); KIAA0821 protein	
2.58	Hs.169401 apolipoprotein E	
2.56	Hs.19520 FXYD domain-containing ion transport regulator 2	
2.56	Hs.97403 KIAA0944 protein	
2.52	Hs.181307 H3 histone, family 3A	
2.51	Hs.119140 eukaryotic translation initiation factor 5A	
2.49	Hs.307104 Human DNA company from the a DD44 off the	
,0	Hs.307104 Human DNA sequence from clone RP11-278J20 on chromosome 6. Contains ESTs, STSs and GSSs. Contains an RRRPA (retinoplestoms hinding protein 4) according to the contains and RRRPA (retinoplestoms hinding protein 4) according to the contains and RRRPA (retinoplestoms hinding protein 4) according to the contains and RRRPA (retinoplestoms hinding protein 4) according to the contains and RRRPA (retinoplestoms hinding protein 4) according to the contains and	
2.46	GSSs. Contains an RBBP4 (retinoblastoma-binding protein 4) pseudogene and a KIAA0797 pseudogene Hs.301916 Homo sapiens microtubule-associated protein 1A like protein (M1LP) mRNA, partial cds	



Table 2
Differential Gene Expression in Fugetaxis vs Chemotaxis SDF-1 Gradients

2.4	
2.4	Hs.285529 G protein-coupled receptor 49
2.43	Hs.275215 hydroxysteroid (11-beta) dehydrogenase 1
2.41	Hs.128311 ESTs
2.40	
2.38	Hs.177972 chromosome 4 open reading frame 6
2.38	Hs.79516 brain abundant, membrane atlached signal protein 1
2.36	Hs. 152292 SWISNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1
2.36	Hs.97984 hypothetical protein FLJ22252 similar to SRY-box containing gene 17
2.35	gb:AB059408.1 /DEF=Homo sapiens mRNA, complete cds, clone:SMAP31-12.
2.34	Hs.88411 lymphocyte antigen 117
2.33	Hs.113274 transcription factor EC
2.32	Hs.166715 hypothetical protein PRO2533
2.29	Hs. 73739 5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled)
2.29	Hs.2718 human epididymis-specific 3 alpha
2.28	Hs.158316 ATP-binding cassette, sub-family B (MDRTAP), member 11
2.27	Hs.2012 transcobalamin I (vitamin B12 binding protein, R binder family)
2.26	Hs.301959 proline synthetase co-transcribed (bacterial homolog)
2.21	Hs.172153 glutathione peroxidase 3 (plasma)
2.20	Hs.183805 ankyrin 1, erythrocytic
2.18	Hs.284136 PRO2047 protein
2.18	Hs.181341 Homo sapiens cDNA FLJ14307 fis, clone PLACE3000158
2.17	ITS 232447 Home satiens DNA sequence from DAC 40700
i	FMO3 genes for Flavin-containing Monooxygenase 2 and Flavin-containing Monooxygenase 3 (Dimethylaniline Monooxygenase 8)
2.16	Ins.77202 protein kinase C, beta 1
2.16	Hs.287673 hypothetical protein FLJ21625
2.16	Hs.76666 C9orf10 protein
2.16	Hs.150443 KIAA0320 protein
2.15	Hs.301946 lymphoid blast crisis oncogene
2.14	Hs.287427 Homo sapiens cDNA FLJ11578 fis, clone HEMBA1003571
2.13	Hs.107526 UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5
2.12	[75.5440 low density lipoprotein receptor-related protein 8, and incompanies a second
2.10	Ins.200331 granzyme M (lymphocyte met-ase 1)
2.10	Hs.77886 lamin AC
2.10	Hs.176090 PRKC, apoptosis, WT1, regulator
2.10	Hs.306752 Homo sapiens cDNA: FLJ21391 fis, clone COL03479
2.09	Hs.210859 hypothetical protein FLJ11016
2.03	Hs.127614 protein phosphatase 1, regulatory (inhibitor) subunit 3 (glycogen and sarcoplasmic reticulum binding subunit, skeletal muscle)
2.08	Hs.82422 capping protein (actin filament), gelsolin-like
2.08	Hs.32168 KIAA0442 protein
2.08	Hs.78305 RAB2, member RAS oncogene family
2.07	Hs.306667 Homo saplens cDNA FLJ14076 fis, clone HEMBB1001925
2.07	Ins.326198 transcription factor 4
2.06	Hs.60708 calsequestrin 1 (fast-twitch, skeletal muscle)
2.06	Hs.1670 phenylalanine hydroxylase
2.05	Hs.217493 annexin A2
2.05	Hs.33084 solute carrier family 2 (facilitated glucose transporter), member 5
2.05	Hs.80758 aspartyHRNA synthetase
2.04	Hs.73291 hypothetical protein FLJ10881
2.03	Hs.270549 HZFw1 protein
2.00	Hs.5831 tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagenase inhibitor)
	The results of the activation, increased late expression
2.00	Hs.272789 hypothetical protein FLJ20217
2.00	Hs.308711 Homo sapiens cDNA: FLJ21215 fis. clone COI 00526
2.00	Hs.323409 Homo sapiens cDNA FLJ14113 fis. clone MAMMA1001715
1.99	Hs.41143 phosphoinositide-specific phospholipase C-bata 1
1.99	Hs.46752 nitric oxide synthase 1 (neuronal)
	Sheet 3 of 12





1.98	He 278050 protocodhair had
1.97	
1.97	
1.96	
1.96	
1.96	The state of the different control of the state of the st
1.96	Hs.159003 transient receptor potential channel 6
1.95	Hs.74614 tight junction protein 1 (zona occludens 1)
1.95	Hs.272351 Human DNA sequence from clone RP4-746H2 on chromosome 20. Contains a pseudogene similar to prokaryotic RPS11 (30S ribosoma) protein S111 FSTs STS and COS
1.94	to prokaryotic RPS11 (30S ribosomal protein S11), ESTs, STSs and GSSs Hs.5814 suppression of tumorigenicity 7
1.94	Hs.169824 killer cell lectin-like receptor subfamily B, member 1
1.94	Hs.283683 chromosome 8 open reading frame 4
1.94	He 326780 Hamp spales also KASS In 1
1.94	Hs.326780 Homo sapiens clone KM35 immunoglobulin light chain variable region mRNA, partial cds Hs.106185 rat guanine nucleotide dissociation stimulator
1.93	Hs 172471 notacities voltage and development of the state
1.93	Hs.172471 potassium voltage-gated channel, shaker-related subfamily, beta member 1 Hs.6654 KIAA0657 protein
1.92	Hs.158343 Testis-specific PTP-BL-related protein on Y
1.92	He 3510 proling de 0.5 (2)
1.92	Hs.35101 proline-rich Gla (G-carboxyglutamic acid) polypeptide 2 Hs.97109 ESTs
1.92	Hs.106552 cell recognition molecule Caspr2
1.91	Hs.153445 Human mRNA for unknown product, partial cds
1.91	Hs.12079 calsyntenin-2
1.91	Hs.69547 myelin basic protein
1.90	Hs 129914 rint related to receiving 6
1.90	Hs.129914 runt-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene) Hs.143212 cystatin F (leukocystatin)
1.90	Hs.90291 laminin, beta 2 (laminin S)
1.89	Hs.287719 hypothetical protein FLJ23074
1.88	Hs.91448 MKP-1 like protein tyrosine phosphatase
1.88	Hs.21858 trinucleotide repeat containing 3
1.88	Hs.77436 pleckstrin
1.88	Hs.295112 KIAA0618 gene product
1.87	Hs.76136 thioredoxin
1.87	Hs. 247877 Human DNA sequence from clone 263J7 on chromosome 6q14.3-15. Contains an RPL7 (60S
	The second of th
4.07	
1.87	Hs.7358 hypothetical protein FLJ13110
1.86	Hs.128322 t-complex 11 (a murine tcp homolog)
1.00	Hs.226019 Homo sapiens mRNA for G16 protein (G16 gene located in the class III region of the major
1.86	histocompatibility complex) Hs.183805 ankyrin 1, erythrocytic
1.86	Hs.326401 fibroblast growth factor 12B
1.85	Hs.73729 very low density lipoprotein receptor
1.85	Hs.211578 MAD (mothers against decapentaplegic, Drosophila) homolog 3
1.85	Hs. 158344 testis-specific testis transcript Y 1
1.84	Hs.114765 myelodlymhold or mixed-lineage feukemia (trithorax (Drosophila) homolog); translocated to, 2
1.84	Hs.123138 leucine rich repeat and death domain containing protein
1.84	Hs.307185 Human glycophorin HeP2 mRNA, partial cds
1.84	Hs.81892 KIAA0101 gene product
1.83	Hs.160483 erythrocyte membrane protein band 7.2 (stornatin)
1.83	Hs.82962 thymidylate synthetase
1.83	Hs.119285 /len=716
1.82	Hs.149255 phosphatidylinositol-4-phosphate 5-kinase, type I, alpha
1.82	Hs.169910 KIAA0173 gene product
1.82	Hs.75825 plelomorphic adenoma gene-like 1
1.82	Hs.89474 ADP-ribosylation factor 6
1.81	ds.272398 transcription factor ets
1.81	1s.296756 Homo sapiens cDNA FLJ14348 fis. clone THYRO1004503
1.81	Is.274578 Homo saplens mRNA; cDNA DKFZp434F0723 (from clone DKFZp434F0723)
1.80	ds.198281 pyruvate kinase, muscle
	Chart 4 of 12



1.80 IHs.180919 Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein 1.80 IHs.19278 citizes I cytokine receptor 1.80 IHs.192781 citizes I cytokine receptor 1.80 IHs.48778 niban protein 1.79 IHs.48778 niban protein 1.79 IHs.48778 niban protein 1.79 IHs.48778 niban protein 1.79 IHs.9329 citromesome 20 open reading frame 1 1.79 IHs.272788 hypothetical protein FLJ20413 1.79 IHs.272788 hypothetical protein FLJ20413 1.79 IHs.272788 hypothetical protein FLJ20413 1.79 IHs.272780 hypothetical protein FLJ20413 1.79 IHs.190194 arachidonate 5-fipoxygenase-activating protein 1.78 IHs.272010 KUAN2050 protein 1.78 IHs.272010 KUAN2050 protein 1.79 IHs.272010 KUAN2050 protein 1.70 IHs.272010 KUAN2050 protein 1.70 IHs.272010 KUAN2060 protein FLJ201477 1.71 IHs.38095 ATPsec, Ca++ transporting, cardiac muscle, fast twitch 1 1.72 IHs.272375 WWT16 protein 1.73 IHs.272375 WWT16 protein FLJ201477 1.74 IHs.272375 WWT16 protein FLJ201477 1.75 IHs.272375 Hypothetical protein FLJ201477 1.76 IHs.272375 Hypothetical protein FLJ201477 1.77 IHs.306331 Home sapiens caspase-10c mRNA, complete cds 1.78 IHs.76722 CCAAFrenhaner binding protein (CEBP), delta 1.79 IHs.311 phosphoribosvi prorphosphate amidotransferase 1.70 IHs.311 phosphoribosvi prorphosphate amidotransferase 1.71 IHs.3168 Ane-830 1.77 IHs.3168 Ane-830 1.77 IHs.3168 Ane-830 1.77 IHs.3168 Ane-830 1.77 IHs.31208 eppin-3 1.78 Intersection I (SIR3 domain protein) 1.79 IHs.31208 eppin-3 1.79 Intersection I (SIR3 domain protein) 1.70 IHs.313305 olfactory receptor, family 10, subfamily II, member 3 1.71 IHs.313305 olfactory receptor, family 10, subfamily II, member 3 1.73 IHs.32039 ISFatiment II receptor-like 2 1.74 IHs.32039 ISFatiment II receptor-like 2 1.75 IHs.32030 Sidactory receptor, family 10, subfamily II, member 3 1.76 IHs.102855 Interseckin I receptor-like 2 1.77 IHs.32030 Sidactory receptor, family 10, subfamily II, member 3 1.78 IHs.32030 Sidactory receptor, family 10, subfamily II, member 4 1.79 IHs.32030 Total Intersection II (Intersection III) INTERSECTION I	1.80	
1.80 Hs.132781 class I cytokine receptor 1.80 Hs.54481 low density lipoprotein receptor related protein 6, apolipoprotein e receptor 1.79 Hs.43278 niban protein 1.79 Hs.9328 chromosome 20 open reading frame 1 1.79 Hs.9328 chromosome 20 open reading frame 1 1.79 Hs.9328 chromosome 20 open reading frame 1 1.79 Hs.100194 arrachidonate 5-fiposygenase-activating protein 1.78 Hs.270010 KIAA0508 protein 1.78 Hs.270010 KIAA0508 protein 1.78 Hs.28088 a disintegrin and metalloproteinase domain 11 1.78 Hs.183075 ATPase, Ca++ transporting, cardiac muscle, fast twitch 1 1.78 Hs.28393 hypothetical protein FLJ21477 1.78 Hs.28393 hypothetical protein FLJ21477 1.78 Hs.28393 hypothetical protein FLJ21477 1.78 Hs.380561 Homo sapiens caspase-10c mRNA, complete cds 1.78 Hs.76722 CCAATenhancer binding protein (CEBP). delta 1.77 Hs.76901 for protein disulfide isomerase-related 1.77 Hs.254105 enolase 1, (alpha) 1.77 Hs.311 phosphoribosyl pyrophosphate amidotransferase 1.77 Hs.31869 flen-680 1.77 Hs.31268 flen-680 1.77 Hs.31268 flen-680 1.77 Hs.31268 flen-680 1.77 Hs.32029 IGF-II mRNA-binding protein 2 1.77 Hs.32029 IGF-II mRNA-binding protein 2 1.77 Hs.32039 IGF-II mRNA-binding protein 2 1.78 Hs.7975 KIAA1233 protein 1.79 Hs.19706 Variable charge. Y chromosome 1.79 Hs.32330 foliatory receptor, family 10, subfamily H, member 3 1.79 Hs.165 glucagon-flike peptide 1 receptor 1.70 Hs.1675 Hs.3960 here signal gene 6 (TEL oncogene) 1.71 Hs.167 Side Cardia gene 6 (TEL oncogene) 1.72 Hs.16706 Variable charge. Y chromosome 1.73 Hs.267386 histamine H4 receptor 1.74 Hs.3675 Th.38plans gene from PAC 106H8, similar to Dynamin 1.75 Hs.267386 histamine H4 receptor 1.76 Hs.267386 histamine H4 receptor 1.77 Hs.3675 Hs.39plans gene from PAC 106H8, similar to Dynamin 1.79 Hs.26745 hypothetical protein FLJ13959 1.71 Hs.36286 mitogen-activated protein Kinase kinas	1.80	Hs. 180919 inhibitor of DNA binding 2 dominant negative boliv lear ball.
1.80 IHs.132781 class I Cytokine receptor 1.79 IHs.48478 niban protein 1.79 IHs.3928 chromosome 20 open reading frame 1 1.79 IHs.3928 chromosome 20 open reading frame 1 1.79 IHs.272788 hypothetical protein FLI20413 1.79 IHs.272788 hypothetical protein FLI20413 1.79 IHs.272780 hypothetical protein FLI20413 1.79 IHs.272780 hypothetical protein FLI20413 1.79 IHs.272780 hypothetical protein FLI20413 1.78 IHs.272378 wNT16 protein 1.78 IHs.272378 wNT16 protein 1.78 IHs.272378 wNT16 protein 1.79 IHs.32234 hypothetical protein FLI20163 1.78 IHs.272378 wNT16 protein 1.78 IHs.32234 hypothetical protein FLI20163 1.79 IHs.32234 hypothetical protein FLI20163 1.79 IHs.32234 hypothetical protein FLI20163 1.79 IHs.32224 hypothetical protein FLI20163 1.79 IHs.32224 hypothetical protein FLI20163 1.79 IHs.32224 hypothetical protein FLI20163 1.79 IHs.32234 hypothetical protein FLI20163 1.79 IHs.32234 hypothetical protein FLI20163 1.70 IHs.3224 hypothetical protein FLI20163 1.71 IHs.3225 hypothetical protein GEBP), delta 1.71 IHs.3225 hypothetical protein GEBP, delta 1.72 IHs.3225 hypothetical protein GEBP, delta 1.73 IHs.3225 hypothetical protein GEBP, delta 1.74 IHs.3225 hypothetical protein GEBP, delta 1.75 IHs.3225 hypothetical protein GEBP, delta 1.76 IHs.3225 hypothetical protein FLI3054 1.77 IHs.323505 olfactory receptor, family 10, subfamily H, member 3 1.78 IHs.32535 hypothetical protein FLI3054 1.79 IHs.32535 hypothetical protein FLI3054 1.71 IHs.32535 hypothetical protein FLI3054 1.72 IHs.32535 hypothetical protein FLI3054 1.73 IHs.32535 hypothetical protein FLI3054 1.74 IHs.32535 hypothetical protein FLI3054 1.75 IHs.32535 hypothetical protein FLI3054 1.76 IHs.32535 hypothetical protein FLI3054 1.77 IHs.32535 hypothetical protein FLI3055 1.71 IHs.32535 hypothetical protein FLI3055 1.72 IHs.32535 hypothetical protein FLI3055 1.73 IHs.32535 hypothetical protein FLI3055 1.74 IHs.32535	1.80	Hs.10247 activated leucocyte cell adjession molecule
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OP RE	GULATED IN CHEMOTAXIS COMPARED TO FUGETAXIS SDF-1 GRADIENTS
1 -21.0	1 [HS.323342 actin related protein 23 complex subupit 4 (20 kD)
10.0	Hs.78409 collagen, type XVIII, alpha 1
-10.4	Hs.15075 hypothetical protein DKFZp434E2216
-10.3	Hs.305960 hemoglobin, gamma A
-10.1	Hs.85752 uncharacterized hematopoletic stemprogenitor cells protein MDS026
-9.17	Hs. 76415 Inter-alpha (globulin) inhibitor H4 (plasma Kallikrein-sensitive divcorretela)
-8.59	HS.740 PTK2 protein tyrosine kinase 2
-7.79	
-7.50	
-7.30	The state of the s
-6.96	
-6.76	
-6.59	Hs.79410 solute carrier family 4, anion exchanger, member 2 (erythrocyte membrane protein band 3-like 1)
-6.29	1 is 10344 i hypothelical protein FLJ20707
-6.02	Hs.14142 nudix (nucleoside diphosphate linked moiety X)-type motif 2
-5.92	Hs.110457 Wolf-Hirschhorn syndrome candidate 1
-5.76	Hs.247981 Stat2 type a
-5.62	Hs.301636 peroxisomal biogenesis factor 6
-5.43	Hs.283404 organic cation transporter
-5.30	Hs.300496 miltochondrial solute carrier
-5.28	Hs.79019 baculoviral IAP repeat-containing 1
-5.28	Hs.6343 KIAA1464 protein
-5.27	Hs. 121073 hypothetical protein FLJ10466
-5.25	Hs.280666 Homo sapiens chromosome 19, cosmid R32184
-5.25	Hs.79340 PTH-responsive osteosarcoma B1 protein
-5.12	Hs.279862 cdk inhibitor p21 binding protein
-5.07 -4.97	gb:NM_030882.1 /DEF=Homo sapiens apolipoprotein L, 2 (APOL2), mRNA.
-4.97	ins./6289 biliverdin reductase B (flavin reductase (NADPH))
	Hs.36972 CD7 antigen (p41)
-4.95 -4.82	Hs.21970 guanine nucleotide binding protein (G protein), gamma 3, linked
-4.73	Hs.197335 plasma glutamate carboxypeptidase
-4.73 -4.67	Hs.5378 spondin 1, (f-spondin) extracellular matrix protein
-4.65	Hs.250821 hypothetical protein MGC4054
-4.63	Hs.93597 cyclin-dependent kinase 5, regulatory subunit 1 (p35)
	Hs.22370 Homo sapiens mRNA; cDNA DKFZp564O0122 (from clone DKFZp564O0122)
-4.51	Hs.1516 insulin-like growth factor-binding protein 4
-4.49	Hs.74047 electron-transfer-flavoprotein, beta polypeptide
-4.48	Hs.22479 KIAA1110 protein
-4.46	Hs.296821 Human facioscapulohumeral muscular dystrophy (FSHD) gene region, D4Z4 tandem repeat unit
-4.46	13.20017 Chomosome 22 open reading frame 4
-4.45	Hs.325530 KIAA1067 protein
-4.44	Hs.26938 Homo sapiens, clone IMAGE:4053044, mRNA, partial cds
4.37	Hs.23585 KIAA1078 protein
-4.36	Hs.264 GS2 gene
-4.32	Hs.99987 excision repair cross-complementing rodent repair deficiency, complementation group 2 (xeroderma
	plgmentosum D) Hs.7943 RPB5-mediating protein
	Hs 27810 retinging and leaders in the visit
-4.24	Hs.27610 retinoic acid- and interferon-inducible protein (58kD) Hs.276483 H4 histone family, member E
-4.20	Hs 26045 protein tyrosing about the
	Hs.26045 protein tyrosine phosphatase, receptor type, A
4.13	Hs. 155924 cAMP responsive element modulator
	Hs.54558 hypothetical protein FLJ22222
	Hs.7946 KIAA1288 protein
-3.96	Hs. 112751 KJAA0892 protein
5.50	ds.7019 signal-induced proliferation-associated gene 1



-3.95	La energe les de la constantination de la co
-3.93	
-3.93	
-3.92	Hs.277401 bromodomain adjacent to zinc finger domain, 24
-3.92	PIS.28/652 Homo saplens cDNA: FLJ21258 fis clone COL01408
-3.88	ITS.41693 DnaJ (Hsp40) homolog, subfamily 8, member 4
-3.86	Hs.19554 chromosome 1 open reading frame 2
-3.84	Hs.112434 Novel human gene mapping to chomosome 13
-3.80	Hs 4854 cyclic described in the state of the
-3.77	
-3.77	Hs.182577 inositol polyphosphate-5-phosphatase, 75kD
	I was to the protection blockill EKOSON1
-3.77	Hs.256549 nucleotide binding protein 2 (E.coli MinD like)
-3.73	[gb:U41742.1 /DEF=Human nucleophosmin-retingic acid records of the fundamental acid records of
	mRNA, complete cds.
-3.65	thyroid hormone receptor, alpha (avian erythroblastic leukemia viral (v-erb-a) oncogene homolog)
-3.64	The course will industrial and the course will be considered to th
-3.64	Ins.44005 lymphoid enhancer binding factor-1
-3.63	Hs.40300 calpain 3, (p94)
-3.63	gb:Z25432.1 /DEF=H.saplens protein-serinethreonine kinase gene, complete CDS.
-3.62	Hs.90443 NADH dehydmaenase (ubliquines) Fo. Complete CDS.
-3.62	Hs.90443 NADH dehydrogenase (ubiquinone) Fe-S protein 8 (23kD) (NADH-coenzyme Q reductase) Hs.121102 vanin 2
-3.61	[10.121102 Valm12
-3.61	Hs.126707 hypothetical protein FLJ11457
-3.61	Hs.306677 Homo sapiens cDNA FLJ14320 fis, clone PLACE3000455
	Hs.33862 ESTs
-3.59	Hs.139648 KIAA0706 gene product
-3.59	Hs.89560 Iduronidase, alpha-L-
-3.57	Hs.7426 KIAA0841 protein
-3.56	Hs.5378 spondin 1, (f-spondin) extracellular matrix protein
-3.56	Hs.14286 flavin containing monocycenase 5
-3.56	Hs.319088 hypothetical protein FLJ10375
-3.55	Hs.138155 carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7
-3.55	Hs.129943 KIAA0545 protein
-3.53	Hs.89232 chromobox homolog 5 (Drosophila HP1 alpha)
-3.50	Hs.142245 HERV-H LTR-associating 3
-3.49	Ha geno VIA socs
	Hs.26899 KIAA0285 gene product
-3.49	Hs.77313 cyclin-dependent kinase (CDC2-like) 10
-3.47	Hs.78146 plateletendothelial cell adhesion molecule (CD31 antigen)
-3.47	Hs.194148 v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1
-3.44	Hs.21361 KIAA1023 protein
-3.43	Hs.227280 U6 snRNA-associated Sm-like protein
-3.42	Hs.9846 KIAA1040 protein
-3.41	Hs.73742 ribosomal protein, large, PO
-3.40	Hs.226581 COX15 (yeast) homolog, cytochrome c oxidase assembly protein
-3.35	Hs.1975 hypothetical protein FLJ21007
	Hs. 100090 tetraspan 3
-3.29	Hs 195484 Home contract many c
	Hs. 195484 Homo saplens mRNA full length insert cDNA clone EUROIMAGE 327506
	Hs.85195 myeloid leukemia factor 1
	Hs.155470 zinc finger protein 38 (KOX 25)
-3.27	Hs.6831 golgi resident protein GCP60
-3.25	ds.87908 Snf2-related CBP activator protein
-3.23	ds.12908 CDC42-binding protein kinase beta (DMPK-like)
-3.22	ls.210546 interleukin 21 receptor
-3.20 H	ls.46821 hypothetical protein FLJ20086
-3.16 H	ls.211933 collagen, type XIII, alpha 1
-3.16 J	ts.36977 hemoglobin, delta
	to 2019.7 ESTs. Moderately circiler to SC44 UNIVAN
-3.14 F	ls.291972 ESTS, Moderately similar to SC14_HUMAN SEC14-LIKE PROTEIN H.saplens
-0.14	15.190010 ES15
-3.14	ds.12142 WD repeat domain 13



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-2.93	Hs.81424 ublquitin-like 1 (sentrin)
-2.91	
-2.90	
-2.90	Hs.83347 anglo-associated, migratory cell protein
-2.89	Hs.86178 M-phase phosphoprotein 9
-2.84	Hs.251410 Homo saplens chromosome 19, cosmid R31180
-2.84	Hs.278741 UDP glycosyltransferase 1 family, polypeptide A8
-2.82	Hs.288617 hypothetical protein FLJ22621
-2.82	Hs.2558 bone gamma-carboxyglutamate (gla) protein (osteocalcin)
-2.81	Hs.170307 Ral guanine nucleolide exchange factor RalGPS1A
-2.81	Hs.241558 ariadne (Drosophila) homolog 2
-2.80	Hs. 272317 Homo sapiens mRNA; cDNA DKFZp434O0213 (from clone DKFZp434O0213); partial cds
-2.80	110.250004 € 515
-2.78	Hs.3080 mitogen-activated protein kinase 7
-2.78	Hs.94037 hypothetical protein FLJ23053
-2.78	KIAA0280 protein
-2.77	Hs.12328 KIAA1005 protein
-2.76	Hs.237825 signal recognition particle 72kD
-2.76	Hs.272792 hypothetical protein FLJ20307
-2.73	Hs. 132753 F-box only protein 2
-2.71	Hs.74519 primase, polypeptide 2A (58kD)
-2.71	Hs. 180338 tumor necrosis factor receptor superfamily, member 12 (translocating chain-association membrane
-2.68	
-2.68	Hs. 285005 mitochondrial import receptor Tom22
-2.68	Hs. 172052 serinethreonine kinase 18
-2.67	Hs.180903 hypothetical protein 384D8_6
-2.64	Hs.9071 progesterone membrane binding protein
-2.63	Hs.18443 aldehyde dehydrogenase 8 family, member A1
-2.62	Hs.174185 ectonucleotide pyrophosphatasephosphodiesterase 2 (autotaxin)
	Hs.17883 prolein phosphatase 1G (formerly 2C), magnesium-dependent, gamma isoform
-2.61	ris. 170402 myosin, light polypeptide 5. regulatory
2.01	Hs. 180338 tumor necrosis factor receptor superfamily, member 12 (translocating chain-association membrane protein)
	Hs.153293 KIAA0701 protein
	Hs. 238272 ingsital 1.4.5. Idahasahata sacartas har 9
	Hs.238272 inositol 1,4,5-triphosphate receptor, type 2
	Hs.58362 hypothetical protein FLJ12681
-2.58	Homo sapiens chromosome 19, cosmid R28784, complete sequence.
	Hs.75813 polycystic kidney disease 1 (autosomal dominant)
	Hs.23964 sin3-associated polypeptide, 18kD



-2.	54 Hs.283675 NPD009 protein
-2.5	Hs.183887 hypothetical protein FLJ22104
-2.5	3 Hs.80741 propionyl Coenzyme A carboxylase, alpha polypeptide
-2.5	2 Hs.80828 keratin 1 (epidermolytic hyperkeratosis)
-2.5	22 Hs.147587 Homo sapiens mRNA; cDNA DKFZp547F134 (from clone DKFZp547F134)
-2.5	Hs.287444 hypothetical protein FLJ11722
-2.5	1 Hs.17409 cystelne-rich protein 1 (intestinal)
-2.5	0 Hs.325520 Homo sapiens IMAA mRNA for hLAT1-3TM, complete cds
-2.4	9 HS.301011 KIAA0876 protein
-2.4	8 Hs.16193 Homo sapiens mRNA: cDNA DKEZD588R211 (from John DKEZ 508R211)
-2.4	U 113.32842 phospholnoside-3-kinase, catalytic gamma polypoptide
-2.4	o Ins.23240 Homo sapiens cDNA FL.113496 fis clone PLACE1004474
i	
-2.4	
-2.4	Hs.180338 tumor necrosis factor receptor superfamily, member 12 (translocating chain-association membrane protein)
-2.40	protein)
-2.4	1 This is a self-teceptor-associated protein BAP74
-2.43	The state of the s
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-2.40	provided to the virtue protein, Goldi-associated, damma-adaptin par containing, ADC his at
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-2.38	Hs.248572 hypothetical protein FLJ22965
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-2.34	Hs.283978 Homo sapiens PRO2751 mRNA, complete cds
-2.34	Hs.306211 small EDRK-rich factor 1B (centromeric)
-2.33	Hs.6700 /len=604
-2.32	Hs.5022 imprinted in Prader-Willi syndrome
-2.32	Hs.82919 cullin 2
-2.31	Hs.274131 Down syndrome critical region gene 1-like 2
-2.30	Hs.7594 solute carrier family 2 (facilitated glucose transporter) member 3
-2.29	Igb:NM_030900.1 /DEF=Homo sapiens KIAA0948 protein (KIAA0948) mpNA
-2.29	ns.271699 polymerase (DNA directed) lota
-2.29	Hs.134729 FXYD domain-containing ion transport regulator 7
-2.28	Hs. 180408 solute carrier family 25 (mitochondrial carrier, Graves disease autoentigen), member 16
-2.28	1 is 57 doo todsled-like kiriase 2
-2.28	Hs.82919 cullin 2
-2.27	Hs.34012 breast cancer 2, early onset
-2.24	Hs.202276 KIAA1009 protein
-2.23	Hs.89563 nuclear cap binding protein subunit 1, 80kD
-2.22	Hs.966 collin
-2.22	Hs.25155 neuroepithelial cell transforming gene 1
-2.21	Hs.108779 DKFZP586E1519 protein
-2.21	Hs.79440 IGF-II mRNA-binding protein 3
-2.20	Hs. 46465 T-cell, immune regulator 1
-2.20	Hs.74861 activated RNA polymerase II transcription cofactor 4
-2.19	Hs.238944 hypothetical protein FLJ10631
-2.19	Hs.279902 cofactor required for Sp1 transcriptional activation, subunit 9 (33kD)
-2.19	Ins.79372 reunoid X receptor, beta
-2.19	Hs.183291 zinc finger protein 268
-2.19 -2.18	Hs.247817 H2B histone family, member A
-2.18 -2.18	Hs. 274336 camitine palmitoyltransferase II
-2.10	Hs.283709 lipopolysaccharide specific response-7 protein



-2.18	
-2.1	Hs.8173 hypothetical protein FLJ10803
-2.16	Hs.16079 hypothetical protein FLJ10233
-2.14	Hs.180338 tumor necrosis factor receptor superfamily, member 12 (translocating chain-association membrane protein)
-2.13	
-2.13	Hs.143131 glycoprotein A33 (transmembrane)
-2.13	Hs.111244 hypothetical protein
-2.12	Hs.168640 ankylosis, progressive (mouse) homolog
-2.11	Hs.293495 ESTs, Weakly similar to ALU1_HUMAN ALU SUBFAMILY J SEQUENCE CONTAMINATION
1	WARNING ENTRY H.saplens
-2.11	Hs.5997 hypothetical protein FLJ13078
-2.11	Hs.7995 /len=469
-2.10	
-2.10	Hs.2815 POU domain, class 6, transcription factor 1
-2.09	Hs.278985 hypothetical protein
-2.09	Hs.89474 ADP-ribosylation factor 6
-2.08	Hs.301114 zinc finger protein 79 (pT7)
-2.08	Hs.235445 hypothetical protein FLJ21313
-2.07	He 13033 estemblishment of the control of the contr
-2.07	Hs.139033 paternally expressed 3
-2.07	Hs.62187 phosphatidylinositol glycan, class K
	Hs.109655 sex comb on midleg (Drosophila)-like 1
-2.08	Hs.279777 hypothetical protein
-2.06	Hs.75694 mannose phosphate isomerase
-2.05	Hs.5378 spondin 1, (f-spondin) extracellular matrix protein
-2.05	Hs.66180 nucleosome assembly protein 1-like 2
-2.05	Hs.306292 Homo sapiens mRNA; cDNA DKFZp564F133 (from clone DKFZp564F133)
-2.04	Ins.42215 protein phosphatase 1, regulatory subunit 6
-2.04	Hs.75574 mitochondrial ribosomal protein L19
-2.04	Hs.301512 nuclear mitotic apparatus protein 1
-2.04	Hs.58593 general transcription factor IIE, polyneptide 2 (30kD subust)
-2.04	Hs.16193 Homo saplens mRNA; cDNA DKFZp586B211 (from clone DKFZp586B211)
-2.03	MS.283/53 Cell Cycle progression 8 protein
-2.03	Hs.226103 Homo sapiens mRNA; cDNA DKFZp564G222 (from clone DKFZp564G222)
-2.03	Hs.100932 transcription factor 17
-2.03	Hs.278398 KIAA1117 protein
-2.03	Hs.39733 postsynaptic protein CRIPT
-2.03	Hs.200595 KIAA0562 gene product
-2.03	Hs.31659 thyroid hormone receptor-associated protein, 95-kD subunit
-2.03	Hs.98571 complement C1r-like proteinase precursor,
-2.02	Hs.179507 KIAA0779 protein
-2.02	Hs.71168 Homo sapiens clone 24674 mRNA sequence
-2.02	Hs.82143 E74-like factor 2 (ets domain transcription factor)
-2.02	Hs.62 protein tyrosine phosphatase, non-receptor type 12
-2.02	Hs.236642 3-hydroxyisobutyryl-Coenzyme A hydrolase
-2.02	He 0456 SMISNIE poloto methodological methodologica
-2.01	Hs.9456 SWISNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5 Hs.182595 dynein, axonemal, light polypeptide 4
-2.01	113.102093 dynem, axonemai, light polypeptide 4
-2.01	Hs.294014 ESTs
-2.00	Hs.920 modulator recognition factor I
	Hs.108947 KIAA0050 gene product
-2.00	Hs.111373 KIAA0423 protein
-2.00	Hs.158205 basic leucine zipper nuclear factor 1 (JEM-1)
-2.00	Hs.79078 MAD2 (mitotic arrest deficient, yeast, homolog)-like 1
-2.00	Hs.13421 KIAA0056 protein
-2.00	Hs.155995 KIAA0643 protein
-1.99	Hs.323950 zinc finger protein 6 (CMPX1)
-1.99	Hs.103834 hypothetical protein MGC5576
-1.99	Hs.300741 sorcin



Table 2
Differential Gene Expression in Fugetaxis vs Chemotaxis SDF-1 Gradients

-1.99	gb:NM_030794.1 /DEF=Homo saplens hypothetical protein FLJ21007 (FLJ21007), mRNA.
-1.99	Hs.27413 adaptor protein containing pH domain, PTB domain and leucine zipper motif
-1.98	Hs.152151 plakophilin 4
-1.98	Hs.300684 calcitonin gene-related peptide-receptor component protein
-1.98	Hs.307091 Homo sapiens ARTS protein (PNUTL2) mRNA, complete cds; nuclear gene for mitochondrial
	1product
-1.98	Hs.119274 RAS p21 protein activator (GTPase activating protein) 3 (Ins(1,3,4,5)P4-binding protein)
-1.98	Hs.139271 phosphodiesterase 5A, cGMP-specific
-1.98	Hs.99491 RAS guanyl releasing protein 2 (calcium and DAG-regulated)
-1.97	Hs.79368 epithelial membrane protein 1
-1.97	Hs.7627 CGI-60 protein
-1.97	Hs.265561 CD2-associated protein
-1.97	Hs.58362 /ien=594
-1.97	Hs.192966 KIAA0265 protein
-1.96	Hs.288411 ESTs
-1.96	Hs.3530 TLS-associated serine-arginine protein 2
-1.95	gb:AF019888.1 /DEF=Homo sapiens Arp23 complex 20 kDa subunit (ARC20) mRNA, complete cds.
-1.95	Hs.285848 KIAA1454 protein
-1.95	Hs.105633 hypothetical protein FLJ10583
-1.95	Hs.279761 HSPC134 protein
-1.94	Hs.6217 Homo sapiens cDNA FLJ12521 fls, clone NT2RM2001840
-1.94	Hs.50335 cytochrome P450 monooxygenase
-1.92	Hs.279842 HSPC157 protein
-1.92	Hs.84560 hypothetical protein FLJ11795
-1.92	Hs.283978 Homo sapiens PRO2751 mRNA, complete cds
-1.91	Hs.25245 hypothetical protein FLJ11269
-1.91	Hs.21497 Homo sapiens, clone IMAGE:3629896, mRNA, partial cds
-1.90	Hs.178011 hypothetical protein FLJ20257
-1.90	Hs.22549 hypothetical protein FLJ12799
-1.89	Hs.3945 CGI-107 protein
-1.89	Hs.280666 Homo sapiens chromosome 19, cosmid R32184
-1.88	Hs.7158 DKFZP566H073 protein
-1.88	Hs.100729 KIAA0692 protein
-1.88	Hs.153489 ASB-1 protein
-1.88	Hs.121128 BCR downstream signaling 1
-1.88	Hs.75887 coatomer protein complex, subunit alpha
-1.87	Hs.301997 hypothetical protein FLI13033
-1.87	Hs.71746 hypothetical protein FLJ11583
-1.87	Hs.7194 CGI-74 protein
-1.86	Human clone 23719 mRNA sequence
	Hs.234898 /len=382
-1.86	Hs.190488 hypothetical protein FLJ10120
-1.86	Hs.164036 Homo sapiens AKAP350C mRNA sequence, alternatively spliced
-1.85 -1.85	Hs.79018 chromatin essembly factor 1, subunit A (p150)
-1.85	Hs.9629 papillary renal cell carcinoma (translocation-associated)
	Hs.156667 KIAA1536 protein
-1.85	Hs.87 retinoblastoma-like 1 (p107)
-1.84	Hs.100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7
-1.84	Hs.6113 staufen (Drosophila, RNA-binding protein)
	Hs.8124 PH domain containing protein in ratina 1
-1.82	Hs.287391 Homo sapiens chromosome 19, cosmid F23269
	Hs.166204 PHD finger protein 1
	ds.193163 bridging integrator 1
	ds.48291 phosphodiesterase 6D, cGMP-specific, rod, delta
-1.81	ds.75546 capping protein (actin filament) muscle Z-line, alpha 2
	ds.68398 period (Drosophila) homolog 1
	ls.29956 KIAA0460 protein ls.82684 ETAA16 protein
	A. SECONT E FANTIO PROLEIN



Table 2
Differential Gene Expression in Fugetaxis vs Chemotaxis SDF-1 Gradients

-1.		
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-1.6	Hs.2780 jun D proto-oncogene	
-1.7		
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	o Iris.44131 NAAU974 protein	_
-1.7	The second destriction (legion) 1, telumenc	_
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-1.76		ㅓ
-1.75		┪
-1.75		┪
-1.75		1
-1.74		┪
-1.74		1
-1.74	The state of the s	1
-1.74	Hs.203772 FSHD region gene 1	٦.
-1.74	Hs.8198 zinc finger protein 204	٦.
-1.73		7.
-1.73	Hs.295923 seven in absentia (Drosophila) homolog 1	1:
-1.73	Hs.16951 DKFZP586P2219 protein	7
-1.73	Hs.9196 hypothetical protein	1
-1.73	Hs.322645 Homo saplens mRNA; cDNA DKFZp586J101 (from clone DKFZp586J101)]
-1.73	Hs.239934 CGI-98 protein]
-1.72	Hs.22559 KIAA0197 protein]
-1.72	Hs.112493 Homo sapiens mRNA; cDNA DKFZp564D036 (from clone DKFZp564D036)]
-1.72	Hs.26102 trichorhinophalangeal syndrome (]
-1.72	Hs.252723 ribosomal protein 1.19	į
-1.72	Hs.244 amino-terminal enhancer of split	l
-1.72	Hs.279819 APR-1 protein	
-1.71	Hs.295446 ESTs, Moderately similar to 810024C cytochrome sylders LLL	
-1.71	[ris.30090 transcription factor-like 5 (basic helix-loop-helix)	
-1.71	HS.31834 Homo sapiens clone 25129 mRNA sequence	
-1.71	Hs.14928 hypothetical protein FLJ12903	
-1.71	Hs.236940 /len=570	
-1.71	Hs.48433 endocrine regulator	
-1.71	Hs.283912 Homo sapiens PAC clone RP4-771P4 from 7q11.21-q11.23	
-1.71	Ins. 129445 hypothetical protein FLJ12496	
-1.70	Hs.49526 f-box and leucine-rich repeat protein 4	
-1.70	Hs.70359 KIAA0136 protein	
-1.70	Hs.75790 phosphatidylinositol glycan, class C	
-1.70	Hs.83790 KIAA0305 gene product	
-1.70	Hs.18885 CGI-116 protein	
-1.70	Hs.232068 transcription factor 8 (represses interleukin 2 expression)	



Table 3

Differential Gene Expression in Chemokinesis vs Chemotaxis SDF-1 Gradients

UP REGULATED IN CHEMOTAXIS COMPARED TO CHEMOKINESIS SDF-1 GRADIENTS 80.37 Hs.99120 DEADH (Asp-Glu-Ala-AspHis) box polypeptide, Y chromosome 51.46 Hs.80358 SMC (mouse) homolog, Y chromosome
36.38 Hs.180911 ribosomal protein S4, Y-linked
24.62 Hs.155103 eukaryotic translation initiation factor 1A, Y chromosome 21.08 Hs.193145 ubiquilin specific protease 9, Y chromosome (Drosophila fat facets related)
16.17 Hs.155397 Homo saplens mRNA; cDNA DKFZp564K143 (from clone DKFZp564K143) 12.68 Hs.177605 killer cell lectin-like receptor subfamily C, member 2 11.67 Hs.75658 phosphorylase, glycogen; brain 10.31 Hs.155103 eukaryotic translation initiation factor 1A, Y chromosome 9.31 Hs.301636 peroxisomal biogenesis factor 6 9.28 Hs.99120 DEADH (Asp-Glu-Ala-AspHis) box polypeptide, Y chromosome 8.95 FK506-binding protein 8 (38kD) Hs.37427 erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked) 7.92 Hs.278599 nuclear receptor subfamily 6, group A, member 1 6.60 Hs.25817 BTB (POZ) domain containing 2 6.45 Hs.79410 solute carrier family 4, anion exchanger, member 2 (erythrocyte membrane protein band 3-like 1) 6.13 Hs.56336 protein kinase, Y-linked Hs.5541 ATPase, Ca++ transporting, ubiquitous 6.04 Hs.180577 granulin 5.26 Hs.73931 major histocompatibility complex, class II, DQ beta 1 5.01 Hs.10306 natural killer cell group 7 sequence 4.63 Hs.272108 ESTs 4.28 Hs.121073 hypothetical protein FLJ10466 4.27 Hs.79340 PTH-responsive osteosarcoma B1 protein Hs.89560 iduronidase, alpha-L-3.91 Hs.272438 discs, large (Drosophila) homolog 3 (neuroendocrine-dig) 3.90 Hs.104555 neuropeptide FF-amide peptide precursor 3 79 Hs.285753 SCG10-like-protein Hs.99877 Janus kinase 3 (a protein tyrosine kinase, leukocyte) 3.75 Hs.187378 hypothetical protein FLJ11278 3.54 Hs.58362 hypothetical protein FLJ12681 3.40 Hs.98614 ribosome binding protein 1 (dog 180kD homolog) 3.38 Hs.12142 WD repeat domain 13 3.35 Hs.202672 endothelial differentiation, sphingolipid G-protein-coupled receptor, 5 3.35 Hs.41 cardinoembryonic antigen-related cell adhesion molecute 8 3.31 Hs.76415 Inter-alpha (globulin) inhibitor H4 (plasma Kallikrein-sensitive glycoprotein) Hs.326035 early growth response 1 3.21 3.18 Hs.193324 ESTs 3.17 Hs.279651 melanoma Inhibitory activity
3.13 Hs.194662 calponin 3, acidic 3.13 Hs.167380 BLu protein 3.10 Hs.181353 UDP-Gal:betaGicNAc beta 1,3-galactosyltransferase, polypeptide 2
3.10 Hs.110964 hypothetical protein FLJ23471 3.10 Hs.147472 dyneln Intermediate chain 2 Hs.7724 KIAA0963 protein gb:U52696.1 /DEF=Human adrenal Creb-rp homolog (Creb-rp), complete cds, and tenascin-X (XB), partial cds, Hs.134729 FXYD domain-containing ion transport regulator 7 2.99 Hs.17409 cystelne-rich protein 1 (intestinal) 2.95 Hs.3066 granzyme K (serine protease, granzyme 3; tryptase II) 2.90 Hs.92381 nudix (nucleoside diphosphate linked moiety X)-type motif 4 2.90 Hs.242407 G protein-coupled receptor, family C, group 5, member B 2.86 Hs.76289 biliverdin reductase B (flavin reductase (NADPH)) Hs.7258 hypothetical protein FLJ22021 2.84 gb:NM_030931.1 /DEF=Homo saplens epididymal secretory protein ESP13.2 (ESP13.2), mRNA. 2.82 Hs.233789 ESTs 2.81 Hs.64096 KIAA0427 gene product



2.78	
2.76	
2.75	ris.248 milogen-activated protein kinase kinase kinase 8
2.75	Hs.272891 hippocalcin-like protein 4
2.74	Hs.72964 makorin, ring finger protein, 3
2.65	Hs.234642 aquaporin 3
2.64	
2.60	Hs.306425 Homo sapiens mRNA for KIAA1417 protein, partial cds
2.60	Hs.321149 hypothetical protein FLJ10257
2.55	Hs.306412 Homo saplens cDNA FLJ20854 fis, done ADKA01341
2.54	Hs.278932 PRO0214 protein
2.51	Hs.192662 hypothetical protein FLJ10469
2.49	Hs.283675 NPD009 protein
2.48	Hs.12229 TGFB inducible early growth response 2
2.47	Hs.160318 FXYD domain-containing ion transport regulator 1 (phospholemman)
2.47	Hs.300711 annexin A5
2.46	Hs.171825 basic helix-loop-helix domain containing, class B, 2
2.44	Hs.112434 Novel human gene mapping to chomosome 13
2.43	Hs.81182 histamine N-methyltransferase
2.43	Hs.144630 nuclear receptor subfamily 2, group F, member 1
2.41	Hs.66718 RAD54 (S.cerevisiae)-like
2.41	Hs.211388 Homo saplens BAC clone CTB-60N22 from 7g21
2.40	Hs.250870 mitogen-activated protein kinase kinase 5
2.35	Hs.24083 KIAA0997 protein
2.34	Hs.30250 v-maf musculoaponeurotic fibrosarcoma (avian) oncogene homolog
2.33	Hs 78995 MADS have trape grinting school for the state of
2.32	Hs.78995 MADS box transcription enhancer factor 2, polypeptide C (myocyte enhancer factor 2C) Hs.83169 matrix metalloproteinase 1 (interstitial collagenase)
2.32	Hs.36972 CD7 antigen (p41)
2.30	Hs.7627 CGI-60 protein
2.30	Hs.61258 argininosuccinate lyase
2.29	Hs.184915 zinc finger protein, Y-linked
2.27	Hs.105700 secreted frizzled-related protein 4
2.24	Hs.9688 leukocyte membrane antigen
2.22	Hs.5881 ELL gene (11-19 lysine-rich leukemia gene)
2.19	Human DNA sequence from clone RP5-1174N9 on observed to 0.14 and 0.05
	16-1-17 WILLIAM COLLINA, B (DOCUDO
2.18	Hs.94970 KIAA0306 protein
2.18	Hs.322422 Homo sapiens cDNA FLJ11676 fis, clone HEMBA1004752, highly similar to Homo sapiens mRNA
2.17	
2.17	Hs.195464 filamin A, alpha (actin-binding protein-280)
2.15	gb:NM_030753.1 /DEF=Homo saplens wingless-type MMTV integration site family, member 3 (WNT3), mRNA.
2.15	1.13.100432 aldenyde denydrogenase 2 family (mitochondrial)
	Hs.1724 interleukin 2 receptor, alpha
2.14	Hs.21497 Homo sapiens, clone IMAGE:3629896, mRNA, partial cds
	Hs.38972 CD7 antigen (p41)
2.08	Hs.11590 cathepsin F
2.07	Hs.57749 synaptic nuclei expressed gene 2; KIAA1011 protein
2.07	Hs.103382 phospholipid scramblase 3
2.06	Hs.77858 mesenchyme homeo box 2 (growth arrest-specific homeo box)
2.00	Hs.64239 Human DNA sequence from done RP5-1174N9 on chromosome 1p34.1-35.3. Contains the gene for a novel protein with IBR domain, a (pseudo
2.06	Hs.211584 neurofilament, light polypeptide (68kD)
2.05	Hs.278295 cholinergic receptor, nicotinic, epsilon polypeptide
2.05	Hs.11809 single ig IL-1R-related molecule
2.04	Hs.3838 serum-Inducible kinase
2.03	aquaporin 3
	Hs.307091 Home saniens ARTS protein (PANLITLO) - DAVA
	Hs.307091 Homo sapiens ARTS protein (PNUTL2) mRNA, complete cds; nuclear gene for mitochondrial product
1.99	Hs.71746 hypothetical protein FLJ11583



Table 3
Differential Gene Expression in Chemokinesis vs Chemotaxis SDF-1 Gradients

1.98	Hs.58362 /len=594
1.97	
1.96	
1	Hs.81256 S100 calcium-binding protein A4 (calcium protein, calvasculin, metastasin, murine placental homolog)
1.96	
1.95	Hs.78781 vascular endothelial growth factor B
1.94	Hs.7019 signal-induced proliferation-associated gene 1
1.94	Hs.68877 cytochrome b-245, alpha polypeptide
1.94	Hs.195464 filamin A, alpha (actin-blnding protein-280)
1.92	Hs.1103 transforming growth factor, beta 1
1.92	Hs.150540 Homo sapiens, clone IMAGE:3954961, mRNA, partial cds
1.90	Hs.155191 villin 2 (ezrin)
1.90	Hs.301417 AHNAK nudeoprotein (desmoyokin)
1.90	Hs.112049 SET blnding factor 1
1.88	Hs.73956 NAD(P)H menadione oxidoreductase 2 dioxin Inducible
1.88	Hs.202687 potassium voltage-gated channel, Shal-related subfemily, member 2
1.88	HS.5345 arginyl aminopeptidase (aminopeptidase B)-like 1
1.88	Hs.30127 hypothetical protein
1.86	Hs.7252 KIAA1224 protein
1.85	Hs.76240 adenylate kinase 1
1.85	Hs.25999 hypothetical protein FLJ22195
1.84	Hs.118463 transport-secretion protein 2.2
1.84	Hs.153529 Homo sapiens clone 24540 mRNA sequence
1.82	Hs.9999 epithelial membrane protein 3
1.82	Hs.167017 gamma-aminobutyric acid (GABA) B receptor, 1
1.82	Hs.51305 v-maf musculoaponeurotic fibrosarcoma (avian) orcogene family, protein 5
1.82	Ins.2/29/2 hypothetical protein FLJ20185
1.81	peroxisomal biogenesis factor 6
1.81	Hs.103147 hypothetical protein FLJ21347
1.80	Hs.74573 similar to vaccinia virus Hindiii K4L ORF
1.80	Hs.62402 p21Cdc42Rac1-activated kinase 1 (yeast Ste20-related)
1.80	Hs.112028 MisshapenNiK-related kinase
1.79	Hs. 428 fms-related tyrosine kinase 3 ligand
1.77	Hs.100071 6-phosphogluconolactonase
1.76	Hs.99491 RAS guanyl releasing protein 2 (calcium and DAG-regulated)
1.76	Hs.182982 golgin-67
1.75	Hs.31659 thyrold hormone receptor-associated protein, 95-kD subunit
1.74	Hs.275438 histone deacetylase 7A
1.74	Hs. 2551 adrenergic, beta-2-, receptor, surface
1.73	Hs.91299 guanine nucleotide binding protein (G protein), beta polypeptide 2 Hs.11809 //en=525
1.73	
1.73	Hs.9731 nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta Hs.195484 Homo saplens mRNA full length insert cDNA clone EUROIMAGE 327506
1.73	Hs.180040 hypothetical protein FLJ22439
1.72	Hs.94382 adenosine kinase
1.72	Hs.156667 KIAA1536 protein
1.72	Hs. 285313 core promoter element binding protein
1.72	Hs.47344 advillin
1.72	Hs.41502 hypothetical protein FLJ21276
	Hs.7647 MYC-associated zinc finger protein (purine-binding transcription factor)
1.71	Hs.104481 Nck, Ash and phospholipase C binding protein
1.71	Hs.178011 hypothetical protein FLJ20257
	Hs. 131885 /len=582
	Hs.108947 KIAA0050 gene product
1.70	Hs.272814 hypothetical protein DKFZp434E1723
	State Production and Production



Table 3 Differential Gene Expression in Chemokinesis vs Chemotaxis SDF-1 Gradients

DOWN REGULATED IN CHEMOTAXIS COMPARED TO CHEMOKINESIS SDF-1 GRADIENTS -17.85 Hs.223014 antizyme inhibitor -12.91 Hs.76364 allograft inflammatory factor 1 -5.81 Hs.82985 collagen, type V, alpha 2 -5.69 Hs.7358 hypothetical protein FLJ13110 -5.42 Hs.212587 Homo sapiens mRNA; cDNA DKFZp566M043 (from clone DKFZp566M043) -5.06 Hs.51120 cathelicidin antimicrobial peptide -4.80 Hs.173464 FK506-binding protein 8 (38kD) Hs.134503 PR domain containing 8 -4.54 Hs.119500 ribosomal protein, large P2 -4.27 Hs.139263 calcium channel, voltage-dependent, alpha 1F subunit -4.24 Hs.76845 phosphoserine phosphatase-like -4.23 Hs.182740 ribosomal protein S11 gb:M24668.1 /DEF=Human Ig rearranged H-chain V-region mRNA (C-D-JH4), complete cds. -3.89 Hs.73793 vascular endothelial growth factor -3.89 Hs.75105 emopamil-binding protein (sterol isomerase) -3.86 Hs.274 megakaryocyte-associated tyrosine kinase -3.86 Hs.24322 ATPase, H+ transporting, lysosomal (vacuolar proton pump) 9kD Hs.203269 ESTs, Moderately similar to ALUB_HUMAN ALU SUBFAMILY SX SEQUENCE CONTAMINATION -3.78 WARNING ENTRY H.sapiens -3.76 Hs.3112 sodium channel, nonvoltage-gated 1, gamma -3.72 Hs.10247 activated leucocyte cell adhesion molecule -3.67 Hs.406 solute carrier family 6 (neurotransmitter transporter, dopamine), member 3 -3.66 Hs.27184 growth factor, erv1 (S. cerevisiae)-like (augmenter of liver regeneration) -3.63 Hs.321223 keratin 6B Hs.173594 serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1
-3.52 Hs.152251 frizzled (Drosophila) homolog 5 Hs.69752 desmocollin 1 -3.48 Hs.159581 matrix metalloproteinase 17 (membrane-inserted) -3.48 Hs.105927 stem cell growth factor, lymphocyte secreted C-type lectin -3.47 Hs.223241 eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein) -3.40 Hs.24322 ATPase, H+ transporting, lysosomal (vacuolar proton pump) 9kD -3.36 Hs.239737 C-terminal binding protein 1 -3.33 Hs.78305 RAB2, member RAS oncogene family -3.32 Hs.84285 ubiquitin-conjugating enzyme E2I (homologous to yeast UBC9) -3.29 Hs.303649 small inducible cytokine A2 (monocyte chemotactic protein 1, homologous to mouse Sig-je) -3.27 Hs.183362 hypothetical protein FLJ20535 -3.28 Hs.146409 cell division cycle 42 (GTP-binding protein, 25kD) -3.22 Hs.2969 v-ski avian sarcoma viral oncogene homolog -3.20 Hs.279832 hypothetical protein FLJ10488 -3.18 Hs.187354 nuclear receptor subfamily 2, group E, member 3 -3.18 Hs.68578 corticotropin releasing hormone receptor 2 -3.12 Hs.19280 cystelne-rich motor neuron 1 -3.12 Hs.154999 ESTs, Moderately similar to HERC2 H.sapiens -3.11 Hs.273294 hypothetical protein FLJ20069 -3.10 Hs.139137 Homo sapiens clone 24442 mRNA sequence -3.06 Hs.178749 synovial sarcoma, X breakpoint 3 Hs.7645 fibrinogen, B beta polypeptide -3.05 Hs.154085 leucine zipper protein 1 -3.04 Hs.198427 hexokinase 2 -3.03 Hs.302022 PR domain containing 16 -3.01 Hs.105859 hypothetical protein FLJ10260 Hs.278581 fibroblast growth factor receptor 2 (bacteria-expressed kinase, keratinocyte growth factor receptor, craniofacial dysostosis 1. Crouzon syndrome, Pfeiffer syndrome, Jackson-Weiss syndrome)

Hs.278581 fibroblast growth factor receptor 2 (bacteria-expressed kinase, keratinocyte growth factor receptor, craniofacial dysostosis 1. Crouzon syndrome, Pfeiffer syndrome, Jackson-Weiss syndrome) -2.98 Hs.4775 junctophilin 3



	
-2.9	
-2.9	5 Hs.225170 hypothetical protein FLJ11535
-2.9	2 Hs.125783 DEME-6 protein
-2.9	2 gb:BC006196.1 /DEF=Homo sapiens, tumor necrosis factor receptor superfamily, member 9, clone MGC:2172, mRNA, complete cds.
<u> </u>	mRNA, complete cds.
-2.9	2 Hs.16488 calreticulin
-2.92	2 Hs.292911 ESTs
-2.91	
-2.89	Hs.306778 Homo sapiens cDNA: FLJ21524 fis, clone COL05921
-2.85	Hs 307345 Home september and the Land Hs 2000
-2.85	The state of the s
-2.80	
-2.78	The state of the s
-2.78	
-2.70	Hs.248190 UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyitransferase 4 (GalNAc-T4)
-2.74	
-2.73	
1	Hs.1166 thrombopoietin (myeloproliferative leukemia virus oncogene ligand, megakaryocyte growth and development factor)
-2.72	
-2.68	Hs.7936 BAI1-associated protein 2
-2.68	
-2.67	
-2.64	Hs.57764 protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform
-2.64	113.113303 Chromosome X open reading frame 2
	Hs.16488 calreticulin
-2.64	Hs.128311 ESTs
-2.64	Hs.283055 hypothetical protein PRO1316
-2.60	Hs.93758 H4 histone family, member H
-2.58	Hs.249727 hypothetical protein FLJ11798
-2.57	Hs.233568 H2A histone family, member I
-2.55	Hs.171995 kallikrein 3, (prostate specific antigen)
-2.55	Hs.85302 adenosine deaminase, RNA-specific, B1 (homolog of rat PED1)
-2.55	HS.172928 collagen, type I, alpha 1
-2.54	Hs.702 cytochrome P450, subfamily IIC (menhenytoin 4-bydroydaes), pel-pedide 40
-2.53	Hs.3781 similar to murine leucine-rich repeat protein
-2.52	Hs.288650 aquaporin 4
-2.47	Hs. 322680 Homo sapiens cDNA: FLJ21547 fis, done COL06206
-2.43	Hs.69559 KIAA1096 protein
-2.42	Hs. 108287 intercellular adhesion molecule 4, Landsteiner-Wiener blood group
-2.41	Hs.194766 H.saplens GENX-5624 mRNA, 3 UTR
-2.41	Hs.213392 hypothetical protein FLJ13195 similar to stromal antigen 3
-2.41	Hs.166715 hypothetical protein PRO2533
-2.38	Hs.65149 growth hormone 2
-2.38	db:BC005949 1/DFE-Home stations almiles to the state of t
-2.38	gb:BC005949.1 /DEF=Homo sapiens, similar to rat myomegalin, clone MGC:14586, mRNA, complete cds.
-2.37	1. Ideotet Totalo Sapietis (filolegoxin della 3 (1 XN della 3) mPNA podial ada
-2.35	Hs.306602 Homo sapiens cDNA FLJ11514 fis, clone HEMBA1002229
-2.32	gb:NM_012465.1 /DEF=Homo sapiens tolloid-like 2 (TLL2), mRNA. Hs.41135 endomucin-2
-2.31	
-2.31	Hs.111732 Fc fragment of IgG binding protein
	Hs.73064 gonadotropin-releasing hormone receptor
-2.30	Hs.7306 secreted frizzled-related protein 1
	Hs.288931 Homo saplens cDNA FLJ13034 fls, done NT2RP3001232
-2.29	Hs.25732 eukaryotic translation initiation factor 4 namma 3
-2.29	gb:NM_030975.1 /DEF=Homo saplens keratin associated protein 9.9 (KDTARO 0) RNA
4.41	13.20137 hypothetical protein DKFZ0434P0116
-2.26	Hs.97109 ESTs
-2.23	Hs.111611 ribosomal protein L27
-2.20	Hs.78629 ATPase, Na+K+ transporting, beta 1 polypentide
-2.19	Hs.180919 inhibitor of DNA binding 2, dominant negative helix-loop-helix protein
-2.16	Hs.4147 translocating chain-associating membrane protein



	•
-2.1	
-2.1	
-2.1	TIS.124120 Homo Sapiens clone 24438 mRNA seguence
-2.1	3 Hs.199538 inhibin, beta C
-2.1	
-2.1	1 Hs.28777 H2A histone family, member L
-2.09	Hs.75736 apolipoprotein D
-2.09	Hs.25051 plakophilin 2
-2.09	Hs.79170 KIAA0227 protein
-2.07	Hs.142023 T cell activation, increased late expression
-2.07	Hs.305979 Homo sapiens clone FLB3024 PRO0756 mRNA, complete cds
-2.08	Hs.279773 diferentiation-related protein dif13
-2.05	Hs.2388 apolipoprotein F
-2.05	Hs.91971 cAMP-regulated guanine nucleotide exchange factor II
-2.05	Hs.3781 similar to murine leucine-rich repeat protein
-2.05	Hs 79474 tyrosing 3, mospecular rich repeat protein
-2.05	
-1.99	The state of the supplier of t
-1.98	113.70004 fibosoffiai protein 127a
-1.97	
-1.96	Hs.48950 heptacellular carcinoma novel gene-3 protein
-1.94	
-1.94	
-1.94	i is. (27026 guarine nucleotide binding protein (G protein), gamma 7
-1.94	Hs.279903 Ras homolog enriched in brain 2
-1.93	Hs.42194 hypothetical protein FLJ22649 similar to signal peptidase SPC2223
-1.93	Hs. 159003 transient receptor potential channel 6
-1.92	Hs.75871 protein kinase C binding protein 1
1.92	Hs.75294 corticotropin releasing hormone
-1.90	Hs.262869 plasminogen-like
-1.90	Hs.239176 insulin-like growth factor 1 receptor
-1.89	Hs.16533 myosin phosphatase, target subunit 1
-1.88	Hs.129683 Homo sapiens unknown mRNA, sequence
-1.87	Hs. 24385 Human hbc647 mRNA sequence
-1.87	Hs.165662 KIAA0675 gene product Hs.283037 HSPC039 protein
-1.86	Hs. 152020 Harduss protein
-1.86	Hs. 152939 Homo saplens clone 24630 mRNA sequence
-1.86	Hs.89474 ADP-ribosylation factor 6
-1.00	Hs.247904 Human DNA sequence from clone 1080K6 on chromosome 20p12.1-13 Contains a pseudogene
-1.86	similar to 40S ribosomal protein S11, ESTs, STSs and GSSs Hs.121128 BCR downstream signaling 1
-1.85	Hs.56043 CGI-115 protein
-1.84	Hs 184050 v.Vi. rsc 2 Kinton and an analysis of the second and the
-1.84	Hs.184050 v-KI-ras2 Kirsten rat sarcoma 2 viral oncogene homolog Hs.50716 hypothetical protein SIRP-b2
-1.83	Hs 133207 PTPRG interesting contains the discrete
-1.82	Hs.133207 PTPRF Interacting protein, blnding protein 1 (liprin beta 1) Hs.7910 RING1 and YY1 blnding protein
-1.81	He 25732 automate to the bridge protein
-1.81	Hs.25732 eukaryotic translation initiation factor 4 gamma, 3 Hs.159526 patched (Drosophila) homolog
-1.81	Hs.92254 hypothetical protein FLJ20163
-1.80	Hs.56966 KIAA0906 protein
-1.80	Hs.283729 ESTs
	Hs 76884 inhibitor of DNA hinding 2
-1.79	Hs.76884 inhibitor of DNA binding 3, dominant negative helix-loop-helix protein
	Hs.298014 Homo sapiens cDNA FLJ14136 fis, clone MAMMA1002744
	Hs.283683 chromosome 8 open reading frame 4
-1.78	Hs.115823 ribonuclease P, 40kD subunit
,,,,	Hs.292245 ESTs, Weakly similar to ALU1_HUMAN ALU SUBFAMILY J SEQUENCE CONTAMINATION WARNING ENTRY H.sapiens
	Hs. 17211 dedicator of cyto-kinesis 2
-1.76	Hs.69547 myelin basic protein



-1.76	Hs.223241 eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)
-1.76	Hs.150551 ESTs, Weakly similar to ALU1_HUMAN ALU SUBFAMILY J SEQUENCE CONTAMINATION WARNING ENTRY H.saplens
-1.76	Hs.73291 hypothetical protein FLJ10881
-1.75	Hs.274382 protein kinase, interferon-inducible double stranded RNA dependent
-1.75	Hs.79732 fibulin 1
-1.75	Hs.502 ATP-binding cassette, sub-family B (MDRTAP), member 3
-1.74	Hs.212587 Homo sapiens mRNA; cDNA DKFZp566M043 (from clone DKFZp566M043)
-1.72	Hs.86958 interferon (alpha, beta and omega) receptor 2
-1.72	Hs. 1948 ribosomal protein S21
-1.72	Hs.293007 aminopeptidase puromycin sensitive
-1.72	Hs.173381 dihydropyrimidinase-like 2
-1.72	Hs.42409 CGI-146 protein
-1.71	Hs.1600 chaperonin containing TCP1, subunit 5 (epsilon)
-1.71	Hs.97681 DNA (cytosine-5-)-methyltransferase 2
-1.71	Hs. 144831 ATPase, aminophospholipid transporter (APLT), Class I, type 8A, member 1
-1.70	Ins.288106 hypothetical protein FLJ21168
-1.70	Hs.323712 KIAA0615 gene product
-1.70	Hs.167835 acyl-Coenzyme A oxidase 1, palmitoyl
-1.70	Hs.326248 Homo sapiens cDNA; FLJ22071 fis. clone HEP11601
-1.70	Hs.180919 inhibitor of DNA binding 2, dominant negative helix-loop-helix protein
	gaase neax-top-neax protein

UP RE	GULATED IN FUGETAXIS COMPARED TO CHEMOKINESIS SDF-1 GRADIENTS
39.8	/ Ins.80358 SMC (mouse) homolog. Y chromosome
35.1	Hs.99120 DEADH (Asp-Glu-Ala-AspHis) box polypeptide, Y chromosome
33.40	Hs.180911 ribosomal protein S4, Y-linked
13.24	Hs.155397 Homo sapiens mRNA: cDNA DKEZ0564K143 (from done DKEZ0564K443)
12.03	ins./5164 chitinase 3-like 1 (cartilage glycoprofein-39)
10.64	Hs.78913 chemokine (C-X3-C) recentor 1
10.01	Hs.155103 eukaryotic translation initiation factor 14. V chromosomo
8.19	Hs.193145 ubiquitin specific protease 9. Y chromosome (Drosophila for foests related)
8.08	(ris.75164 Chiunase 3-like 1 (cartilane divcorretein-30)
7.64 6.57	Hs.100000 S100 calcium-binding protein A8 (calgranulin A)
6.42	Hs. 10306 natural killer cell group 7 sequence
6.10	Hs.153837 myeloid cell nuclear differentiation antigen Hs.77436 pleckstrin
5.97	HS 90120 DEADW (App. Ch. Ale Assettish
5.67	Hs.99120 DEADH (Asp-Glu-Ala-AspHis) box polypeptide, Y chromosome Hs.137583 peptidoglycan recognition protein
5.51	Hs.81685 v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog
5.36	Hs.195432 aldehyde dehydrogenase 2 family (mitochondrial)
5.26	Hs.204238 lipocalin 2 (oncogene 24p3)
5.15	Hs.123079 Glutamate transporter II variant BHBGT IIB (5 region) human brain and arisel and a RNA S
400	
4.99	Hs.301636 peroxisomal biogenesis factor 6
4.94	Hs.2962 S100 calcium-binding protein P
4.75	Hs.250700 tryptase beta 1 Hs.158303 PR domain containing 1, with ZNF domain
4.63	Hs. 19413 S100 calcium-binding protein A12 (calgranulin C)
4.46	Hs.41 carcinoembryonic antigen-related cell adhesion molecule 8
4.20	Hs.76171 CCAATenhancer binding protein (CEBP), alpha
4.17	Hs.2582 defensin, alpha 4, corticostatin
4.08	Hs.155103 eukaryotic translation initiation factor 1A, Y chromosome
3.99	Hs.7724 KiAA0963 protein
3.99	Hs.130760 myosin phosphatase, target subunit 2
3.94	Hs.177605 killer cell lectin-like receptor subfamily C, member 2
3.94	Hs.258588 olfactory receptor, family 1, subfamily A, member 2
3.92 3.91	Hs.74076 CD163 antigen
3.91	Hs.286124 CD24 antigen (small cell lung carcinoma cluster 4 antigen)
3.89	Hs.181353 UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, potypeptide 2 Hs.298469 anglotensin i converting enzyme (peptidyl-dipeptidase A) 1
3.87	Hs.273321 differentially expressed in hematopoletic lineages
3.86	Hs.13040 G protein-coupled receptor 86
3.84	Hs.18551 neuroblastoma (nerve tissue) protein
3.79	Hs.6527 G protein-coupled receptor 56
3.77	Hs.75703 small inducible cytokine A4 (homologous to mouse Min.1b)
3.70	Hs.42346 calcineurin-binding protein calsarcin-1
3.66	Hs.287539 hypothetical protein FLJ12662
3.65	Hs.232070 telomerase-associated protein 1
3.63	Hs.233634 hypothetical protein FLJ14220
3.62	Hs.183125 killer cell lectin-like receptor F1
3.59	Hs. 239500 KIAA0273 gene product
3.57	Hs.196352 neutrophil cytosolic factor 4 (40kD) Hs.301540 seplapterin reductase (7,8-dlhydrobiopterin:NADP+ oxldoreductase)
	Hs.105938 lactotransferrin
	Hs.56336 protein kinase, Y-linked
	Hs.294158 tryptase beta 2
3.50	Hs.621 lectin, galactoside-binding, soluble, 3 (galectin 3)
3.47	Hs.36978 melanoma antigen, family A, 3
3.45	Hs.352 folate receptor 3 (gamma)
3.45	Hs. 198037 KIAA0599 protein

Sheet 1 of 12

Table 4
Differential Gene Expression in Chemokinesis vs Fugetaxis SDF-1 Gradients

3.4	Hs.89499 arachidonate 5-lipoxygenase
3.3	He 57075 each substitution of the substitution
3.3	
3.34	
3.34	
3.34	The condition of the control of the
	HS.8719 hypothetical protein MGC1136
3.30	
3.29	HS.25817 BTB (POZ) domain containing 2
3.29	Hs.172631 Integrin, alpha M (complement composition)
2.05	macrophage antigen alpha polypeptide)
3.25	
3.23	
3.21	Hs.80248 RNA-binding protein gene with multiple splicing
3.21	Hs.242407 G protein-coupled receptor, family C group 5 member B
3.20	HS.248159 persephin
3.19	Hs. 293266 sperm protein associated with the nucleus, X chromosome, family member A1
3.12	113.107730 hypothetical protein F1.122344
3.11	Hs.139425 Homo saniens CDNA EL 112744 fig. clare NEGEROCOTAL
3.10	HS.82112 Interleukin 1 receptor, type I
3.07	Hs.785 integrin, alpha 2b (platelet glycoprotein lib of libilia complex collins OR 45)
3.06	113.17732 phosphalidvisenne-specific phospholipago Adoleba
3.03	Hs.190846 Homo saplens GREB1b (GREB1) mRNA, complete cds, alternatively spliced
3.01	Hs.79516 brain abundant, membrane attached signal protein 1
3.00	ITIS,220014 Human DNA sequence from class 34000
	gene for a novel protein similar to T-STAR, Etoile, Sam68, SLM1 and p62 Tyrosine Phosphoprotein. Contains ESTs, STSs, GSSs and genomic marker D6S1695
	ESTs, STSs, GSSs and genomic marker D6S1695
2.98	Ins./680/ major histocompatibility complex class II, DR alpha
2.98	Hs.181128 ELK1, member of ETS oncorene family
2.98	Hs.92381 nudix (nucleoside diphosphate linked molety X)-type motif 4
2.95	granulysin
2.94	Hs.75990 haptoglobin
2.94	Hs.2142 5-hydroxytryptamine (serotonin) receptor 3A
2.91	Hs.75260 mitogen inducible 2
2.87	Hs.181353 UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2
2.85	ins.276526 tryptase, alpha
2.81	Hs.274562 Homo saplens mRNA: cDNA DKEZn434E3038 (from slove DKEZ 40 (Escap)
2.77	1 is o too small inducible cytokine subtamily C. member 1 (lympheters)
2.77	Hs.332045 Homo sapiens cDNA FLJ20161 fis, done COL09252, highly similar to L33930 Homo sapiens CD24 signal transducer mRNA
	signal transducer mRNA
2.76	Hs.141496 MAGE-like 2
2.75	Hs.122552 G-2 and S-phase expressed 1
2.73	Hs.164980 BarH-like homeobox 1
2.71	Hs.129706 paired box gene 4
2.70	Hs.77436 pleckstrin
2.70	Hs.119597 stearoyl-CoA desaturase (delta-9-desaturase)
2.70	Hs.130546 hypothetical protein FL.120449
2.69	Hs.301417 AHNAK nucleoprotein (desmovokin)
2.68	Hs.272278 cholinergic receptor, nicotinic, alpha polynoptido 9
2.64	Hs.76722 CCAATenhancer binding protein (CEBP), delte
2.64	Hs.75607 myristoylated alanine-rich protein kinase C substrate (MARCKS, 80K-L)
2.64	Hs.307177 Human SH3 domain-containing protein SH3P17 mRNA, complete cds
2.63	Hs.250696 KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3
2.61	Hs.108196 HSPC037 protein
	Hs.79006 deoxythymldylate kinase (thymidylate kinase)
2.56	Hs 25698 ESTs Moderative kinase (mymidyrate kinase)
	Hs.256986 ESTs, Moderately similar to VPP2_HUMAN VACUOLAR PROTON TRANSLOCATING ATPASE 116 KDA SUBUNIT A ISOFORM 2 H.sapiens
	Hs. 198003 sarcosine dehydrogenase
2.54	Hs.112259 T cell receptor gamma locus
	Hs.52931 adrenergic, alpha-1A-, receptor

Sheet 2 of 12



2.51	
2.50	Hs.123030 Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa
	[II) Variable region (subgroup V kappa
2.47	
2.46	[113.34317 IICORII (COllagentionnogen domain-containing lectic) 2 (hugali-)
2.44	Ins./9/05 plectin 1, intermediate filament binding protein, 500kD
2.44	Hs.274509 T cell receptor gamma constant 2
2.44	Hs.192662 hypothetical protein FLJ10469
2.42	Hs.81182 histamine N-methyltransferase
2.41	Hs.272034 hypothetical protein PRO2822
2.39	Hs.112259 T cell receptor gamma locus
2.38	rb-PC009254 A IDE-LI
2.38	gb:BC008252.1 /DEF=Homo saplens, clone MGC:10619, mRNA, complete cds.
2.37	Hs.307187 H.sapiens mRNA for soluble delta TCR
	Hs.283640 dg01 protein
2.37	Hs.196352 neutrophil cytosolic factor 4 (40kD)
2.37	Hs. 143212 cystatin F (leukocystatin)
2.36	Hs.211869 dickkopf (Xenopus laevis) homolog 2
2.34	Hs.105700 secreted frizzled-related protein 4
2.34	Hs.183805 ankyrin 1, erythrocytic
2.34	Hs.78909 butyrate response factor 2 (EGF-response factor 2)
2.34	Hs.150443 KIAA0320 protein
2.33	Hs.171921 sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C
2.33	Hs.287372 V1R-like 1
2.32	Hs.2014 T cell receptor delta locus
2.30	gb:M18728.1 /DEF=Human nonspecific crossreacting antigen mRNA, complete cds.
2.30	Hs 287778 Human DNA combines from the Secretary antigen mRNA, complete cds.
	Hs.287778 Human DNA sequence from clone RP11-318P23 on chromosome 20 Contains a TAR DNA-binding protein pseudogene, ESTs, STSs and GSSs
2.29	Hs.16611 tumor protein D52-like 1
2.29	Hs.195464 filamin A, alpha (actin-binding protein-280)
2.26	Hs.3066 granzyme K (serine protease, granzyme 3; tryptase II)
2.26	Hs.169824 killer cell lectin-like receptor subfamily B, member 1
2.25	Hs.171596 EphA2
2.25	
2.24	Hs.81988 disabled (Drosophila) homolog 2 (mitogen-responsive phosphoprotein)
2.24	Hs.149255 phosphatidylinositol-4-phosphate 5-kinase, type I, alpha
2.23	Hs.306664 Homo sapiens cDNA FLJ14061 fis, clone HEMBB1000749
2.23	Hs.80731 autocrine motility factor receptor
2.23	Hs.74085 DNA segment on chromosome 12 (unique) 2489 expressed sequence
2.23	Hs.301289 Homo sapiens cDNA FLJ12427 fis, clone MAMMA1003127, highly similar to MYOSIN I ALPHA
	13.272208 Homo Sapiens CDNA FLUTUT33 tis, clone HEMBA1003067
2.21	Hs.112259 T cell receptor gamma locus
2.21	Hs.195464 filamin A, alpha (actin-binding protein-280)
2.19	Hs.83169 matrix metalloproteinase 1 (Interstitial collagenase)
2.19	Hs.93728 pre-B-cell leukemla transcription factor 2
2.18	Hs.98428 homeo box B6
2.18	Hs.143897 dysferlin, limb girdle musqular dysfronhy 2B (autosomal recession)
2.17	Hs.7647 MYC-associated zinc finger protein (purine-binding transcription factor)
2.17	Hs.2200 perforin 1 (pore forming protein)
2.16	Hs.78944 regulator of G-protein signalling 2, 24kD
2.16	Hs.183805 ankyrin 1, erythrocytic
	Hs.75909 KIAA0182 protein
	Hs. 287621 hypothetical protein FLJ14069
	Hs.112360 prominin (mouse)-like 1
	Hs. 169266 neuropeptide Y receptor Y1
2.15	Le 14970 carried Paris P
	Hs. 118796 annexin A6
2.10	Hs. 195464 filamin A, alpha (actin-binding protein-280)
2.14	18.50964 carcinoembryonic antigen-related cell adhesion molecule 1 (billang abconstain)
2.10	is. 163605 ankynn 1, erythrocytic
2.10	is.553 solute carrier family 6 (neurotransmitter transporter, serotonin), member 4
	i i i i i i i i i i i i i i i i i i i



Table 4 Differential Gene Expression in Chemokinesis vs Fugetaxis SDF-1 Gradients

2.08	Hs.2463 angiopoletin 1
2.09	Hs.1724 interleukin 2 receptor, alpha
2.09	Hs.306667 Homo sapiens cDNA FLJ14076 fis, clone HEMBB1001925
2.07	Hs.308026 major histocompatibility complex, class II, DR beta 5
2.07	Hs 107528 LIDP Galbat Clabba but a base in DR beta 5
2.05	The state of the s
2.04	[minor details (or to detailable protein)]
2.04	The trade of protest MGC [12]
	1. io. for to decidable AZD receptor
2.04	indicate to confederations
2.04	
2.03	
2.02	Hs.814 major histocompatibility complex, class II, DP beta 1
2.02	Hs.160483 erythrocyte membrane protein band 7.2 (stomatin)
2.02	Hs.50477 RAB27A, member RAS oncogene family
2.00	Hs.288983 hypothetical protein FLJ21477
2.00	Hs.272391 taste receptor, type 2 member 9
1.98	Hs.858 v-rel avian reticuloendotheliosis viral oncogene homolog R (gueloss feeters feeters feeters)
1.97	Hs.6641 kinesin family member 5C
1.97	Hs.51305 v-maf musculoaponeurotic fibrosarcoma (avian) oncogene family, protein F
1.96	Hs.7718 hypothetical protein FLJ22678
1.96	Hs.2631 desmoglein 2
1.95	Hs.197114 RNA binding protein; AT-rich element binding factor
1.94	Hs.286079 spinocerebeliar ataxia 8
1.94	Hs.13684 hypothetical protein FLJ10761
1,93	Hs.79077 KIAA0233 gene product
1.92	Hs.88411 lymphocyte antigen 117
1.91	Hs.77886 Jamin AC
1.91	Hs.116550 ESTs
1.90	Hs.168669 oxoglutarate dehydrogenase (lipoamide)
1.89	Hs.2551 adrenergic, beta-2-, receptor, surface
1.89	Hs.73239 hypothetical protein FLJ10901
1.88	Hs 160222 general history
1.88	Hs.169222 acrosomal vesicle protein 1 Hs.69319 CA11
1.87	Hs.79601 /len=613
1.87	
1.87	Hs.183805 ankyrin 1, erythrocytic
1.07	gb:BC005851.1 /DEF=Homo sapiens, Rho GDP dissociation inhibitor (GDI) alpha, clone MGC:2810, mRNA,
1.87	Complete cds. Hs.121555 myosin IE
1.87	Ins. 12 1333 Inyosin IE
	Hs.24048 FK506 binding protein precursor
1.86	Hs.195850 keratin 5 (epidermolysis bullosa simplex, Dowling-MearaKobnerWeber-Cockayne types)
	[ris. 115246 thut5 (E. Coll) homolog 4
1.86	Hs.41143 phosphoinositide-specific phospholipase C-beta 1
1.85	Hs.181002 MLL septin-like fusion
1.85	gb:NM_031286.1 /DEF=Homo sapiens SH3BGRL3-like protein (SH3BGRL3), mRNA.
1.84	KIAAU620 protein
1.84	Hs.32168 KIAA0442 protein
1.84	Hs.287534 hypothetical protein FLJ12568
1.83	Hs.139033 paternally expressed 3
1.83	Hs.75725 transgelin 2
1.83	Hs.8257 cytokine inducible SH2-containing protein
1.82	Hs.286049 phosphoserine aminotransferase
1.82	Hs.274150 hypothetical protein FLJ10351
	Hs.289082 GM2 ganglioside activator protein
	Hs 785 Intends along 2b (alote) a boson to fully 10 to
1.80	Hs.785 integrin, alpha 2b (platelet glycoprotein ilb of libilia complex, antigen CD41B)
1.80	Hs.160483 erythrocyte membrane protein band 7.2 (stomatin) Hs.50477 RAB27A, member RAS oncogene family
1.79	16.30577 19027A, Member RAS oncogene family
1.78	Hs.306531 Homo saplens caspase-10c mRNA, complete cds

Sheet 4 of 12



Table 4
Differential Gene Expression in Chemokinesis vs Fugetaxis SDF-1 Gradients

1.79	Hs.110915 interleukin 22 receptor
1.79	Hs.127561 myosin XV
1.79	
1.78	Hs. 155191 villin 2 (ezdn)
1.78	Hs.241570 tumor necrosis factor (TNF synerfamily, momber 2)
1.78	175.304902 Solute carrier family 4 sodium bicarbonate cotrongs of the solution
1.78	Hs.91299 guanine nucleotide binding protein (G protein), beta polypeptide 2
1.78	Hs.278295 cholinergic receptor, nicotinic, epsilon polypeptide
1.78	Hs.167529 cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 9
1.77	Hs.102119 opsin 1 (cone pigments), short-wave-sensitive (color blindness, tritan)
1.76	dystrophia myotonica-containing WD repeat motif
1.76	Hs.57749 synaptic nuclei expressed gene 2; KIAA1011 protein
1.76	Hs.99491 RAS guanyl releasing protein 2 (calcium and DAG-regulated)
1.76	Hs.296348 E2k
1.75	Hs.176683 Fc fragment of IgG, low affinity Illb, receptor for (CD16)
1.75	Hs.93837 phosphatidylinositol transfer protein, membrane-associated
1.75	Hs.81256 S100 calcium-binding protein A4 (calcium protein, calvasculin, metastasin, murine placental
1.75	Hs.11801 interferon regulatory factor 6
1.75	Hs.214982 laminin, gamma 1 (formerly LAMB2)
1.75	Hs.234799 breakpoint cluster region
1.75	Hs.97672 CTAGE-1 protein
1.74	Hs.195175 CASP8 and FADD-like apoptosis regulator
1.73	jaquaporin 3
1.73	Hs.10247 activated leucocyte cell adhesion molecule
1.73	Hs.77910 3-hydroxy-3-methylglutaryl-Coenzyme A synthago 1 (celuble)
1.73	175.44 pielotrophin (heparin binding growth factor 8, neurite growth promotion for the first
1.73	113.193173 CASP8 and FADD-like apoptosis regulator
1.72	Hs.80645 interferon regulatory factor 1
1.72	Hs.77422 proteolipid protein 2 (colonic epithelium-enriched)
1.71	Hs.250696 KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention resentes 2
1.71	13.44077 alpha-parvin
1.70	Hs.1103 transforming growth factor, beta 1
1.70	Hs.159161 Rho GDP dissociation inhibitor (GDI) alpha
1.70	Hs.153028 cytochrome b-561
1.70	Hs.279562 myelin transcription factor 1



DOW	N REGULATED IN ELIGETAVIS COMPARED TO
-11.9	N REGULATED IN FUGETAXIS COMPARED TO CHEMOKINESIS SDF-1 GRADIENTS D Hs.76364 allograft inflammatory factor 1
-9.57	
-8.17	7 Hs.740 PTK2 protein tyrosine kinase 2
-7.80	Hs.78409 collagen, type XVIII, alpha 1
-6.94	1 He 156316 when the little in the state of
-6.69	
-6.20	1 13.007 02 Unicidaracienzed hematopoletic stemprogenites cells 14000
-6.13	1. Idiozof o mitogen-dotvating protein kinace kinace kinace kinace kinace
-6.13	(113.74047 electron-transfer-flavoprotein, heta polymentide
	Ins. 14142 hudix (nucleoside diphosphate linked moioty X) have a 1/2
-6.00	113.70 146 plateletendothelial cell adhesion molecule (CD34 entres)
-5.85	ris.203404 organic cation transporter
-5.76	
-5.54	Hs.82985 collagen, type V, alpha 2
-5.45	gb:M24668.1 /DEF=Human Ig rearranged H. chola V. co.
-5.33	
-5.30	HS. 100062 KIAA0675 gene product
-5.29	Hs.76591 KIAA0887 protein
-4.87	Hs.2399 matrix metalloproteinase 14 (membrane incental)
-4.86	Hs.58435 FYN-binding protein (FYB-120130)
-4.83	Hs.93597 cyclin-dependent kinase 5, regulatory subunit 1 (p35)
-4.59	Hs.226581 COX15 (yeast) homolog, cytochrome c oxidase assembly protein
-4.47	Hs.121102 vanin 2
-4.41	Hs 315478 Homo capione Circilant
-4.39	Hs.315478 Homo sapiens, Similar to pericentriolar material 1, clone MGC:8458, mRNA, complete cds
-4.36	Hs.25477 hypothetical protein FLJ21044 similar to Rbig1
-4.29	Hs.306781 Homo sapiens cDNA: FLJ21535 fis, clone COL06131
-4.26	Hs.22370 Homo sapiens mRNA; cDNA DKFZp564O0122 (from clone DKFZp564O0122)
-4.25	KDA REGULATORY SUBUNIT A, BETA ISOFORM H.sapiens Hs.287912 lectin, mannose-binding, 1
-4.16	IHS 158241 KIA A0507
-4.13	Hs.293334 ESTs
-4.11	Hs 24322 ATBaco Lit transaction
	Hs. 24322 ATPase, H+ transporting, lysosomal (vacuolar proton pump) 9kD
	Hs.99987 excision repair cross-complementing rodent repair deficiency, complementation group 2 (xeroderm.
-4.02	Hs.11135 major histocompatibility complex, class II, DN alpha
-3.99	Hs.41693 DnaJ (Hsp40) homolog, subfamily B, member 4
-3.98	Hs.73172 growth factor independent 1
-3.97	Hs 202296 ESTs Mediatable III
	Hs.203269 ESTs, Moderately similar to ALU8_HUMAN ALU SUBFAMILY SX SEQUENCE CONTAMINATION WARNING ENTRY H.sapiens
-3.95	Hs.197335 plasma glutamate carboxypeptidase
-3.93	gb:M24669 1/DFE=Human la consypeptionse
3.92	gb:M24869.1 /DEF=Human Ig rearranged H-chain V-region mRNA (C-D-JH6), complete cds.
	Hs.296746 Homo sapiens cDNA FLJ13833 fis, clone THYRO1000676 Hs.112751 KIAA0892 protein
	Hs 332381 hystodial at 1990
	Hs.332381 hypothetical protein MGC4645
3.72	Hs.225939 sialyltransferase 9 (CMP-NeuActlactosylceramide alpha-2,3-sialyltransferase; GM3 synthase)
3.68	Hs.264 GS2 gene
3.66	Hs.48269 vaccinia related kinase 1
	Hs.1975 hypothetical protein FLJ21007
3.68 H	ds.209646 KIAA1118 protein
3.64 F	- Control in Protein
3.64 F	ls.11127 PET112 (yeast homolog)-like
3.63 F 3.60 F	Is.11127 PET112 (yeast homolog)-like
3.63 H 3.60 H 3.59 H	Is.11127 PET112 (yeast homolog)-like Is.44865 lymphold enhancer binding factor-1 Is.296821 Human facioscapulohymeral muscular dvetesby (FCUR)
3.63 H 3.60 H 3.59 H	Is.11127 PET112 (yeast homolog)-like Is.44865 lymphold enhancer binding factor-1 Is.296821 Human facioscapulohumeral muscular dvetrashv (FOUR)
3.63 H 3.60 H 3.59 H	-is.11127 PET112 (yeast homolog)-like -is.44865 lymphold enhancer binding factor-1 -is.296821 Human facioscapulohumeral muscular dystrophy (FSHD) gene region, D4Z4 tandem repeat unit -is.5378 spondin 1, (f-spondin) extracellular matrix protein
3.63 H 3.60 H 3.59 H 3.55 H 3.53 H	Is.11127 PET112 (yeast homolog)-like Is.44865 lymphold enhancer binding factor-1 Is.296821 Human facioscapulohymeral muscular dvetesby (FCUR)



-3.5	IN THE 270862 od Liebibitas and the in
-3.4	
-3.4	Hs.86178 M-phase phosphoprotein 9
-3.4	His 20894 N Joseph March 19
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-3.32	The state of the s
-3.29	The state of the s
-3.29	The state of the s
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-3.17	
-3.17	
-3.17	
-3.15	
-3.15	
-3.13	
1	Hs.173594 serine (or cystelne) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1
-3.12	Hs.7426 KIAA0841 protein
-3.11	Hs.61712 pyruvate dehydrogenase kinase, isoenzyme 1
-3.11	Hs.110796 SAR1 protein
-3.11	Hs.105478 phosphoribosylformylglycing miding quathers (FOAD)
-3.10	Hs.14286 flavin containing monooxygenase 5
-3.08	Hs.61289 synaptojanin 2
-3.06	Hs.23796 odz (odd Ozten-m. Drosophila) homolog 1
-3.04	Hs.249216 H2B histone family member 1
-3.03	Hs.6179 DEADH (Asp-Glu-Ala-AspHis) box polypeptide 17 (72kD)
-3.03	ris. 1049 to hypothetical protein FL J21940
-3.03	Hs.184523 KIAA0965 protein
-3.03	Hs.175038 HSPC056 protein
-3.02	Hs.314534 ESTs. Moderately similar to ALLIE HUMAN ALLI SUBSACIONAL
	WARNING ENTRY H.sapiens
-3.01	Hs.9192 Homer, neuronal immediate early gene, 1B
-2.99	Hs.296371 RAB28, member RAS oncogene family
-2.99	Hs.49994 Homo sapiens, clone MGC:10871, mRNA complete ed-
-2.98	rs.305960 nemoglobin, gamma A
-2.97	Hs.29189 ATPase, Class VI, type 11A
-2.94	IHs. 109526 zing finger protein 108
-2.94	Hs.287763 Human DNA sequence from clone RP1-23O21 on chromosome 6. Contains an acidic calponin 3 (CNN3) pseudogene, STSs and GSSs
-2.93	(CNN3) pseudogene, STSs and GSSs
-2.93	Hs.279803 hypothetical protein DKFZp566H0824
-2.93	Hs.28899 KIAA0285 gene product
-2.93	Hs.325530 KIAA1067 protein
-2.92	Hs.227280 U6 snRNA-associated Sm-like protein
	Hs.129928 KIAA0477 gene product
	Hs.79993 peroxisomal biogenesis factor 7
-2.89	Hs.109655 sex comb on midleg (Drosophila)-like 1
-2.89 -2.89	Hs.13501 pescadillo (zebrafish) homolog 1, containing BRCT domain
-2.09	HS.86178 M-phase phosphoprotein 9
-2.88	Hs.79170 KIAA0227 protein
-2.86	Hs.42331 ephrin-A4
-2.86 -2.84	Hs.44697 ATPase, Class V, type 10C
	Hs.18069 protease, cysteine, 1 (legumain)
-2.84	Hs.211933 collagen, type XIII, alpha 1
	Chart 7 C10



Table 4
Differential Gene Expression in Chemokinesis vs Fugetaxis SDF-1 Gradients

1-2	82 Hs.20019 hemochromatosis
-2.	
-	81 Human DNA sequence from clone RP5-1163J1 on chromosome 22q13.2-13.33 Contains the 3' part of a gene
	for a novel KIAA0279 LIKE EGF-like domain containing protein (similar to mouse Cetsr1, rat MEGF2), a novel gene for a protein similar to C. elegans B0035.1
-2.	81 Hs.221040 HBS1 (S. cerevisiae)-like
-2.	80 Hs.292998 ESTs
-2.	
-2.	
-2.7	
-2.7	
	1. Total too globallott
-2.7	
-2.7	
-2.7	The state of the s
-2.7	5 Hs.31476 Homo sapiens cDNA FLJ13872 fis, clone THYRO1001322
-2.7	1 13. 1 0000 phospholipase A2, group IVC (cytosolic colcium independ in
-2.6	- It will to protein
-2.6	
-2.6	9 Hs.239114 mannosidase, alpha class 14 momber 2
-2.6	1/15.220213 Cytochrome P450, 51 (langeteral 14 clabs described
-2.6	i is.202009 piasminogen-like
-2.68	gb:BC006356.1 /DEF=Homo sapiens NCY protoin alexa MOS com-
-2.68	
-2.68	113.234014 ES18
-2.65	provided the control of the control
-2.65	Ins. 188640 ankylosis, progressive (mouse) homolog
-2.64	Iris.241493 natural killer-tumor recognition sequence
-2.62	Ins. 100014 glutamate recentor ignotrophic AMPA 2
-2.62	ns.2004 early endosome antigen 1 162kD
-2.62	Hs. / 9368 epithelial membrane protein 1
-2.60	Hs.13980 ubiquitously transcribed tetratricoportide report
-2.60	Hs.28777 H2A histone family, member L
-2.60	Hs.274131 Down syndrome critical region gene 1-like 2
-2.58	HS. 170307 Hall quanting nucleotide exchange forder Delopode
-2.58	ins.54037 hypometical protein FL 123053
-2.58	Hs.295923 seven in absentia (Drosophila) homolog 1
-2.57	Hs.46821 hypothetical protein FLJ20086
-2.56	Hs.144563 tryptophan hydroxylase (tryptophan 5-monooxygenase)
-2.56	Hs.35091 hypothetical protein FLJ10775
-2.55	Hs.288931 Homo sapiens cDNA FLJ13034 fis, done NT2RP3001232
-2.55	Hs.171545 HIV-1 Rev binding protein
-2.53	Hs.59594 /len=529
-2.53	Hs.194669 enhancer of zeste (Drosophila) homolog 1
-2.53	Hs.151010 ESTs
-2.52	Hs.6700 /len=604
-2.51	Hs 207805 Home sanians mana. anna anna anna anna
-2.49	Hs.207805 Homo sapiens mRNA; cDNA DKFZp564I066 (from clone DKFZp564I066) Hs.165662 KIAA0675 gene product
-2.49	Hs.183291 zinc finger protein 268
-2.49	Hs.73742 ribosomal protein, large, P0
-2.49	Hs. 12533 Homo sapiens clone 23705 mRNA sequence
-2.49	Hs 271926 service subtraction and the service
	Hs.271926 serologically defined colon cancer antigen 16
-2.48	Hs. 74624 protein tyrosine phosphatase, receptor type, N polypeptide 2
~	Hs.222306 hypothetical protein MGC3329 Hs.966 collin
-2.45	Hs. 158205 basic leucine zipper nuclear factor 1 (JEM-1)
-2.73	ns.271699 polymerase (DNA directed) inta
-2.43	Hs.5131 hypothetical protein FLJ20654
	Hs.237849 ESTs
	Hs.32942 phosphoinositide-3-kinase, catalytic, gamma polypeptide



Table 4 Differential Gene Expression in Chemokinesis vs Fugetaxis SDF-1 Gradients

-2.42	The state of the s
-2.42	Hs.188710 ESTs
-2.38	
-2.38	Hs.170279 tissue factor pathway inhibitor (lipoprotein-associated capacitation inhibitor)
-2.38	Hs.36972 CD7 antigen (p41)
-2.37	Hs.101299 cullin 5
-2.37	Hs.2558 bone gamma-carboxyglutamate (gla) protein (osteocalcin)
-2.37	Hs.272572 hemoglobin, alpha 2
-2.35	Hs.82919 cullin 2
-2.35	Hs.171558 sex comb on midleg (Drosophila)-like 2
-2.35	Hs.95907 multiple inositol polyphosphate phosphatase 1
-2.35	Hs.210431 Homo saplens mRNA; cDNA DKFZp434N144 (from clone DKFZp434N144)
-2.34	Hs.11494 fibulin 5
-2.34	Hs.25155 neuroepithelial cell transforming gene 1
-2.34	Hs.78146 plateletendothelial cell adhesion molecule (CD31 antigen)
-2.34	Hs.23642 protein predicted by clone 23627
-2.34	Hs.278084 Homo sapiens cDNA: FLJ23327 fis, clone HEP12630, highly similar to HSZNF37 Homo sapiens
	ZNF37A mRNA for zinc finger protein
-2.33	Hs.5022 imprinted in Prader-Willi syndrome
-2.32	Hs.78946 cullin 3
-2.32	Hs.23240 Homo sapiens cDNA FLJ13496 fls, clone PLACE1004471, weakly similar to ZINC FINGER
-2.31	Hs.223241 eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)
-2.30	I is. 194140 V-yes-1 Tamaguchi sarcoma viral oncogene homolog 4
-2.30	gb:S82471.1 /DEF=Homo saplens Kruppel-associated box containing gene product SSV2 (SSV2) = DNA
-2.30	
-2.28	Hs.86434 hypothetical protein FLJ21816
-2.26	Hs.175941 B-cell receptor-associated protein BAP29
-2.26	Hs.96264 alpha thalassemiamental retardation syndrome X-linked (RAD54 (S. cerevisiae) homolog)
-2.26	Hs.75231 solute carrier family 16 (monocarboxylic acid transporters), member 1 Hs.69559 KiAA1096 protein
-2.25	HIS 2006 ALA 1096 Protein
-2.25	Hs.23964 sin3-associated polypeptide, 18kD Hs.94376 proprotein convertase subtilisinkexin type 5
-2.25	Hs.62187 phosphatidylinositol glycan, class K
-2.25	He 27354 Library in Color in C
-2.24	Hs. 272534 Homo sapiens mRNA; cDNA DKFZp564J062 (from clone DKFZp564J062)
-2.23	Hs. 74861 activated RNA polymerase II transcription cofactor 4
-2.22	Hs. 306602 Homo saplens cDNA FLJ11514 fis, clone HEMBA1002229
-2.21	Hs.279777 hypothetical protein Hs.797 nuclear transcription factor Y, alpha
-2.19	Hs.77868 ORF
-2.18	Hs. 102456 survival of motor neuron protein interacting protein 1
	Hs.234265 DKFZP588G011 protein Hs.117313 Meis (mouse) homolog 3
-2.16	Hs. 155140 caseln kinase 2, alpha 1 polypeptide
-2.15	ph/NM 031206 1 /DSS-Home coning to the first transfer of the first
-2.15	gb:NM_031206.1 /DEF=Homo sapiens hypothetical protein FLJ12525 (FLJ12525), mRNA. Hs.100914 hypothetical protein FLJ10352
	Hs 15701 transmembrane 7 cure for the
-2.14	Hs.15791 transmembrane 7 superfamily member 1 (upregulated in kidney) Hs.75694 mannose phosphate isomerase
-2.14	Hs.278985 hypothetical protein
-2.14	Hs 142570 Home conjugated and 24000 Date
-2.14	Hs.142570 Homo sapiens clone 24629 mRNA sequence
-2.14	Hs. 247904 Human DNA sequence from clone 1060k6 on chromosome 20p12.1-13 Contains a pseudogene
	similar to 40S ribosomal protein S11, ESTs, STSs and GSSs Is.237146 hypothetical protein FLJ12752
	15.279902 cofactor required for Sp1 transcriptional activation, subunit 9 (33kD)
-2.12	discretion required for Sp1 transcriptional activation, subunit 9 (33kD)
	ds.166733 leucylcystinyl aminopeptidase
	ds.114408 toll-like receptor 5
-2.10 I	Hs.119023 SMC2 (structural maintenance of chromosomes 2, yeast)-like 1
-2.10 H	ds. 22182 zinc finger protein 23 (KOX 16)



Table 4 Differential Gene Expression in Chemokinesis vs Fugetaxis SDF-1 Gradients

-2.0	
-2.0	Hs.82065 interleukin 6 signal transducer (pp.130, ppcostatin Missonter)
-2.0	/ Igb:AF356353.1 /DEF=Homo saplens spindlin-like grotein 2 (SDIN2) mDNA
-2.0	Hs.306613 Homo saplens cDNA FLJ11740 fis, clone HEMBA1005500
-2.00	Hs.105633 hypothetical protein FLJ10583
-2.0	Hs.82143 E74-like factor 2 (ets domain transcription factor)
-2.0	Hs.43549 uncharacterized hematopoletic stemprogenitor cells protein MDS029
-2.04	Hs.283709 tipopolysaccharide specific response-7 protein
-2.03	Hs. 126908 hypothetical protein FLJ12994
-2.03	
-2.02	
-2.02	
-2.02	Ins.42765 DC11 protein
-2.01	15 TO TELEVITORIO SAPIETIS PROUAD I DIDIEM (PRO)0481) MPNIA
	Ins.300741 sorcin
-2.01	
-2.00	
-2.00	Hs.311 phosphoribosyl pyrophosphate amidotransforace
-2.00	Hs.296290 Homo saplens cDNA FL 113357 fis. clone PLACE1000064 weekly in the control of the contr
1	
-1.99	Hs.251577 hemoglobin, alpha 1
-1.99	Hs.99847 peroxisome biogenesis factor 1
-1.99	Hs.7194 CGI-74 protein
-1.98	Hs.39328 /len=463
-1.98	Hs.96063 Insulin receptor substrate 1
-1.98	Hs.93391 hypothetical protein FLJ10539
-1.98	Hs.48950 heptacellular carcinoma novel gene-3 protein
-1.97	Hs.13225 UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4
-1.96	Hs.234757 Human lipocortin (LIP) 2 pseudogene mRNA, complete cds-like region
-1.96	Hs. 302114 Human DNA sequence from the DS 500
	Hs.302114 Human DNA sequence from clone RP5-843L14 on chromosome 20. Contains ESTs, STSs and GSSs. Contains a novel gene and the 5 part of a gene for a novel protein similar to X-linked ribosomal protein 4 (RPS4X)
L	
-1.96	Hs.283753 cell cycle progression 8 protein
-1.95	Hs.184050 v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog
-1.95	Hs.2074 zinc finger protein, X-linked
-1.95	Hs.135202 c-myc promoter-binding protein
-1.94	Hs.3530 TLS-associated serine-arginine protein 2
-1.94	Hs.97681 DNA (cytosine-5-)-methyltransferase 2
-1.94	Hs.12835 A kinase (PRKA) anchor protein 7
-1.94	He 1602 CDC16 (call 45 s)
-1.94	Hs.1592 CDC16 (cell division cycle 16, S. cerevisiae, homolog)
-1.94	Hs.325520 Homo saplens IMAA mRNA for hLAT1-3TM, complete cds
	Hs.20447 protein kinase related to S. cerevisiae STE20, effector for Cdc42Hs
-1.93	HS.155995 KIAA0643 protein
-1.91	Hs.4310 eukaryotic translation initiation factor 1A
-1.91	Hs.20952 Homo sapiens clone 24411 mRNA sequence
-1.91	Hs.16951 DKFZP586P2219 protein
-1.90	Hs.158205 basic leucine zipper nuclear factor 1 (JEM-1)
-1.90	Hs.14968 pleiomorphic adenoma gene 1
-1.90	Hs.33363 DKFZP434N093 protein
-1.89	Hs.300684 calcitonin gene-related peptide-receptor component protein
-1.89	Hs.265561 CD2-associated protein
-1.89	Hs.81452 fatty-add-Coenzyme A ligase, long-chain 4
-1.89	Hs.109526 zinc finger protein 198
	Hs.179507 KIAA0779 protein
-1.87	He 16070 hardelist
	Hs.16079 hypothetical protein FLJ10233
4.00	Hs.11899 3-hydroxy-3-methylglutaryl-Coenzyme A reductase
-1.86	Hs.158195 heat shock transcription factor 2
-1.86	Hs.124126 Homo sapiens clone 24438 mRNA sequence
-1.86	Hs.287391 Homo saplens chromosome 19, cosmid F23289
-1.85	Hs.288986 survival of motor neuron 1, telomeric
	Sheet 10 of 12

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Table 4
Differential Gene Expression in Chemokinesis vs Fugetaxis SDF-1 Gradients

-1.8	
-1.8	
-1.84	FIRS.117852 ATP-binding cassette, sub-family D (ALD), member 2
-1.84	Fig. 114 Find Finder protein 79 (pT7)
-1.84	Hs.285107 hypothetical protein FLJ13397
-1.84	Hs.50579 hypothetical protein FLJ20718
-1.84	Hs.44856 hypothetical protein FLJ12116
-1.84	Hs.279932 CGI-105 protein
-1.84	Hs.293495 ESTs, Weakly similar to ALU1_HUMAN ALU SUBFAMILY J SEQUENCE CONTAMINATION
	WARNING ENTRY H.saplens
-1.83	
-1.83	Hs.170198 KIAA0009 gene product
-1.83	Hs.111244 hypothetical protein
-1.83	
-1.83	Hs.72160 AND-1 protein
-1.83	
-1.83	
	Ins. 120779 KIAAU752 protein
-1.81	
-1,81	Hs.118174 tetratricopeptide repeat domain 3
-1.81	1 The Table of Code of
-1.81	Hs.22559 KIAA0197 protein
-1.81	Hs.136644 CS box-containing WD protein
-1.80	Hs.174795 PDZ domain-containing quanine puctentide exchange feeter!
-1.79	Hs.122607 B-cell CLLlymphoma 9
-1.79	Hs.78935 methionine aminopeptidase; elF-2-associated p67
-1.79	Hs.43946 L13 protein
-1.78	Hs.1540 nuclear matrix protein p84
-1.78	Hs.8117 erbb2-interacting protein ERBIN
-1.78	Hs.279851 hypothetical protein FLJ10241
-1.78	Hs.82664 EYAA16 protein
-1.77	Hs.283609 hypothetical protein PRO2032
-1.77	Hs.279819 APR-1 protein
-1.76	Hs.118738 KIAA0800 gene product
-1.76	I S. 110730 KIAAOOU gene product
-1.76	Hs.118978 KIAA0256 gene product
-1.76	Hs.111373 KIAA0423 protein
-1.75	Hs.22549 hypothetical protein FLJ12799
	Hs.78221 c-myc binding protein
-1.75	Hs.180324 YY1-associated factor 2
-1.75	Hs.240112 KIAA0276 protein
-1.75	Hs.325667 TMTSP for transmembrane molecule with thrombospondin module
-1.74	Hs.83/15 Sjogren syndrome antigen B (autoantigen La)
-1.74	Hs.6241 phosphoinositide-3-kinase, regulatory subunit, polypentide 1 (p85 alpha)
-1.74	HS.12/416 synaptojanin 1
-1.74	Hs.236642 3-hydroxylsobutyryl-Coenzyme A hydrolase
-1.74	Hs.301800 Home saplens cDNA FLI11568 fis clone HEMBA1003279
-1.74	IHS.247782 Human DNA sequence from clone 581512 on observed to 0
	Initiation Factor EIF3 P35 Subunit and 60S Ribosomal protein L22 pseudogenes. Contains Eukaryotic Translation
-1.74	Hs.30057 transporter similar to yeast MRS2
-1.73	Hs.79078 MAD2 (mitotic arrest deficient, yeast, homology) like 1
-1.73	Hs. 180919 inhibitor of DNA binding 2, dominant negative helix-loop-helix protein
-1.73	Hs.154740 TBP-Interacting protein
-1.73	Hs.247309 succinate-CoA ligase, GDP-forming, beta subunit
-1.72	Hs.180895 putative brain nuclearly-targeted protein
-1.72	He 84560 breaked in inclearly targeted protein
-1.72	Hs.84560 hypothetical protein FLJ11795
	Hs. 249495 heterogeneous nuclear ribonucleoprolein A1
*1.71	Hs.75140 low density lipoprotein-related protein-associated protein 1 (alpha-2-macroglobulin receptor-associated protein 1)
	Hs.285848 KIAA1454 protein
1.7	- Section of the Control of the Cont



Table 4
Differential Gene Expression in Chemokinesis vs Fugetaxis SDF-1 Gradients

-1.71 Hs.7432 hypothetical protein FLJ10477 -1.71 Hs.301406 hypothetical protein PP3501 -1.70 Hs.286027 etoposide-induced mRNA -1.70 Hs.293219 ESTs		Hs.8198 zinc finger protein 204
-1.70 Hs.286027 etoposide-induced mRNA	-1.71	Hs.7432 hypothetical protein FLJ10477
-1.70 Hs.286027 etoposide-induced mRNA -1.70 Hs.293219 ESTs	-1.71	Hs.301406 hypothetical protein PP3501
-1.70 Hs.293219 ESTs	-1.70	Hs.286027 etoposide-induced mRNA
	-1.70	Hs.293219 ESTs



Table 5 Differential Gene Expression in Medium vs Chemotaxis SDF-1 Gradients

UP REGULATED IN CHEMOTAXIS COMPARED TO MEDIUM SDF-1 GRADIENTS 78.70 Hs.80358 SMC (mouse) homolog, Y chromosome 71.90 Hs.99120 DEADH (Asp-Glu-Ala-AspHis) box polypeptide, Y chromosome 54.36 Hs.180911 rlbosomal protein S4, Y-linked 29.71 Hs.193145 ubiquitin specific protease 9, Y chromosome (Drosophila fat facets related) 22.20 Hs.155103 eukaryotic translation initiation factor 1A, Y chromosome 18.91 Hs.155397 Homo sapiens mRNA; cDNA DKFZp564K143 (from clone DKFZp564K143)

12.83 Hs.73931 major histocompatibility complex, class II, DQ beta 1 10.71 Hs.155103 eukaryotic translation initiation factor 1A, Y chromosome 9.06 Hs.301636 peroxisomal biogenesis factor 6

16.39 Hs.73931 major histocompatibility complex, class II, DQ beta 1 14.73 Hs.99120 DEADH (Asp-Glu-Ala-AspHis) box polypeptide, Y chromosome 13.49 Hs.177605 killer cell lectin-like receptor subfamily C, member 2

7.34 Hs.2014 T cell receptor delta locus

6.76 Hs.3195 small Inducible cytokine subfamily C, member 1 (lymphotactin) Hs.326035 early growth response 1

6.08 Hs.56336 protein kinase, Y-linked 5.43 Hs.194689 artemin

gb:BC005921.1 /DEF=Homo saplens, chorionic somatomammotropin hormone 1 (placental lactogen), clone 5.04 MGC:14518, mRNA, complete cds.

4.77 Hs.194746 calcium channel, voltage-dependent, alpha 1G subunit 4.73 Hs.279953 EH domain-binding mitotic phosphoprotein

4.53 gb:M32577.1 /DEF=Human MHC HLA-DQ beta mRNA, complete cds. 4.46 Hs.6891 splicing factor, arginineserine-rich 6

3.99 Hs.187617 hypothetical protein FLJ13941
3.95 Hs.98614 ribosome binding protein 1 (dog 180kD homolog)

3.59 Hs.288915 Homo sapiens cDNA FLJ12346 fis, clone MAMMA1002297, highly similar to Homo sapiens mRNA for Rab6 GTPase activating protein

3.56 Hs.1447 glial fibrillary acidic protein

3.50 Hs.279891 truncated calcium binding protein

3.45 Hs.307105 Human DNA sequence from clone RP11-278J20 on chromosome 6. Contains ESTs, STSs and GSSs. Contains an RBBP4 (retinoblastoma-binding protein 4) pseudogene and a KIAA0787 pseudogene
3.42 Hs.211280 ESTs, Weakly similar to WN7A HUMAN WNT-7A PROTEIN PRECURSOR H.sapiens

3.36 Hs.184915 zinc finger protein, Y-linked

3.33 Hs.79706 plectin 1, Intermediate filament binding protein, 500kD

3.31 Hs.2352 adenylate cyclase 2 (brain)

3.30 Hs.79019 baculoviral IAP repeat-containing 1 Hs.75842 dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A

3.10 Hs.6363 heparan sulfate 6-O-sulfotransferase

3.06 Hs.307187 H.saplens mRNA for soluble delta TCR

3.05 Hs.73742 ribosomal protein, large, P0 3.04 Hs.73078 deleted in azoospermia-like

2.96 Hs.306425 Homo saplens mRNA for KIAA1417 protein, partial cds

2.95 Hs.249216 H2B histone family, member J

2.91 Hs.36972 CD7 antigen (p41)

2.90 Hs.91103 Homo saplens, Similar to CG2245 gene product, clone MGC:4293, mRNA, complete cds 2.87 Hs.274230 3-phosphoadenosine 5-phosphosulfate synthase 2

2.85 Hs.46332 G protein-coupled receptor 6

2.71 gb:NM_030773.1 /DEF=Homo saplens beta tubulin 1, class VI (TUBB1), mRNA.

Hs.21486 signal transducer and activator of transcription 1, 91kD
 Hs.103978 serinethreonine kinase 22B (spermiogenesis associated)

2.59 Hs.164960 BarH-like homeobox 1

2.58 Hs.82503 H.sapiens mRNA for 3UTR of unknown protein

2.57 Hs.319088 hypothetical protein FLJ10375

Hs.184915 zinc finger protein, Y-linked

2.49 Hs.37040 platelet-derived growth factor alpha polypeptide 2.44 Hs.23965 solute carrier family 22 (organic anion transporter), member 6

2.41 Hs.306618 Homo sapiens cDNA FLJ11930 fls, clone HEMBB1000441

Sheet 1 of 4



Hs. 272268 Human DNA sequence from clone RP1-18C9 on chromosome 20 Contains part of a novel gene similar to acetyl-coenzyme A synthetase, a novel gene (locus D20S101) similar to Gamma-glutamyltranspeptidase (contains CCA trinucleotide repeat), a gene simil 2.39 Hs. 2014 T cell receptor della locus 2.35 Hs. 293205 ESTS, Weakly similar to BC39498 1 H.sapiens 2.31 Hs. 55481 zinc finger protein 165 2.31 Hs. 299567 G protein-coupled receptor 44 2.28 Hs. 3838 serum-Inducible kinase 2.25 Hs. 79019 baculoviral IAP repeat-containing 1 2.26 gib:NM_030895 i JDEF=Homo sapiens hypothetical protein FLJ14129 (FLJ14129), mRNA. 2.20 Hs. 36972 CD7 antigen (p41) 2.20 Hs. 36972 CD7 antigen (p41) 2.21 Hs. 36977 Homo sapiens cDNA: FLJ21648 fis, clone COL08469 4.21 Hs. 36977 Homo sapiens mRNA; cDNA DKFZp547E184 (from clone DKFZp547E184) 2.19 Hs. 8077 Homo sapiens mRNA; cDNA DKFZp547E184 (from clone DKFZp547E184) 2.19 Hs. 280380 aminopeptidase 2.05 Hs. 18566 KIAA0451 gene product 2.03 Hs. 193606 Homo sapiens PAC clone RP5-1093017 from 7q11.23-q21 1.99 Hs. 146025 hypothetical protein FLJ23594 1.91 Hs. 197805 SRY (sex detamining region Y)-box 30 1.91 Hs. 1671 immunoglobulin mu binding protein 2 1.92 Hs. 167805 KIAA0250 gene product 1.93 Hs. 167807 SRY (sex detamining region Y)-box 30 1.94 Hs. 167807 SRY (sex detamining region Y)-box 30 1.95 Hs. 167927 CcAATenhancer binding protein (CEBP), delta 1.96 Hs. 39733 postsynaptic protein CRIPT 1.97 Hs. 289737 C-terminal binding protein (CEBP), delta 1.98 Hs. 247042 Bast SRA5 1.99 Hs. 247045 grein is pigmentosa 2 (X-linked recessive) 1.77 Hs. 288940 five-span transmembrane protein M83 1.74 Hs. 288940 five-span transmembrane protein M83 1.75 Hs. 247043 type 1 tumor necrosis factor receptor sheading aminopeptidase regulator		
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1.96 Hs. 33862 ESTs 1.96 Hs.274402 heat shock 70kD protein 1B 1.94 Hs.75887 coatomer protein complex, subunit alpha 1.92 Hs.197805 SRY (sex determining region Y)-box 30 1.91 Hs.1621 immunoglobulin mu binding protein 2 1.90 Hs.15087 KIAA0250 gene product 1.88 Hs.167927 islet cell autoantigen 1 (69kD) 1.86 Hs.39733 postsynaptic protein CRIPT 1.85 Hs.76722 CCAATenhancer binding protein (CEBP), delta 1.84 Hs.265018 hypothetical protein FLJ20635 1.81 Hs.239737 C-terminal binding protein 1 1.80 Hs.33787 vinexin beta (SH3-containing adaptor molecule-1) 1.80 Hs.279582 GTP-binding protein Sara 1.80 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopeptides receibles.	2.03	Hs.193606 Home saplers PAC done RP5-1093017 from Ze11 32 and
1.96 Hs.33862 ESTs 1.96 Hs.274402 heat shock 70kD protein 1B 1.94 Hs.75887 coatomer protein complex, subunit alpha 1.92 Hs.197805 SRY (sex determining region Y)-box 30 1.91 Hs.1521 immunoglobulin mu binding protein 2 1.90 Hs.15087 KIAA0250 gene product 1.88 Hs.167927 islet cell autoantigen 1 (69kD) 1.86 Hs.39733 postsynaptic protein CRIPT 1.85 Hs.76722 CCAATenhancer binding protein (CEBP), delta 1.84 Hs.265018 hypothetical protein FLJ20635 1.81 Hs.239737 C-terminal binding protein 1 1.80 Hs.33787 vinexin beta (SH3-containing adaptor molecule-1) 1.80 Hs.279582 GTP-binding protein Sara 1.80 Hs.324728 SMA5 1.77 Hs.288940 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopeptides receibles	1.99	Hs.146025 hypothetical protein Ft.123594
1.92 Hs.75887 coatomer protein complex, subunit alpha 1.92 Hs.197805 SRY (sex determining region Y)-box 30 1.91 Hs.1621 immunoglobulin mu binding protein 2 1.90 Hs.15087 KIAA0250 gene product 1.88 Hs.167927 islet cell autoantigen 1 (69kD) 1.86 Hs.39733 postsynaptic protein CRIPT 1.85 Hs.76722 CCAATenhancer binding protein (CEBP), delta 1.84 Hs.265018 hypothetical protein FLJ20635 1.81 Hs.239737 C-terminal binding protein 1 1.80 Hs.33787 vinexin beta (SH3-containing adaptor molecule-1) 1.80 Hs.279582 GTP-binding protein Sara 1.80 Hs.324728 SMA5 1.79 Hs.44766 retinitis pigmentosa 2 (X-linked recessive) 1.77 Hs.288940 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopentides receibles.	1.96	Hs.33862 ESTs
1.92 Hs.75887 coatomer protein complex, subunit alpha 1.92 Hs.197805 SRY (sex determining region Y)-box 30 1.91 Hs.1621 immunoglobulin mu binding protein 2 1.90 Hs.15087 KIAA0250 gene product 1.88 Hs.167927 islet cell autoantigen 1 (69kD) 1.86 Hs.39733 postsynaptic protein CRIPT 1.85 Hs.76722 CCAATenhancer binding protein (CEBP), delta 1.84 Hs.265018 hypothetical protein FLJ20635 1.81 Hs.239737 C-terminal binding protein 1 1.80 Hs.33787 vinexin beta (SH3-containing adaptor molecule-1) 1.80 Hs.279582 GTP-binding protein Sara 1.80 Hs.324728 SMA5 1.79 Hs.44766 retinitis pigmentosa 2 (X-linked recessive) 1.77 Hs.288940 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopentides receibles.	1.96	Hs.274402 heat shock 70kD protein 1B
1.91 Hs. 197805 SRY (sex determining region Y)-box 30 1.91 Hs. 1521 immunoglobulin mu binding protein 2 1.90 Hs. 15087 KIAA0250 gene product 1.88 Hs. 167927 islet cell autoantigen 1 (69kD) 1.86 Hs. 39733 postsynaptic protein CRIPT 1.85 Hs. 79722 CCAATenhancer binding protein (CEBP), delta 1.84 Hs. 265018 hypothetical protein FLJ20635 1.81 Hs. 239737 C-terminal binding protein 1 1.80 Hs. 33787 vinexin beta (SH3-containing adaptor molecule-1) 1.80 Hs. 324728 SMA5 1.79 Hs. 44766 retinitis pigmentosa 2 (X-linked recessive) 1.77 Hs. 288940 five-span transmembrane protein M83 1.74 Hs. 247043 type 1 tumor necrosis factor receptor shedding aminopeptides receibles	1.94	Hs.75887 coatomer protein complex subunit alpha
1.91 Hs. 1521 immunoglobulin mu binding protein 2 1.90 Hs. 15087 KIAA0250 gene product 1.88 Hs.167927 islet cell autoantigen 1 (69kD) 1.86 Hs. 39733 postsynaptic protein CRIPT 1.85 Hs.76722 CCAATenhancer binding protein (CEBP), delta 1.84 Hs.265018 hypothetical protein FLJ20635 1.81 Hs.239737 C-terminal binding protein 1 1.80 Hs.33787 vinexin beta (SH3-containing adaptor molecule-1) 1.80 Hs.279582 GTP-binding protein Sara 1.80 Hs.4786 retinitis plgmentosa 2 (X-linked recessive) 1.77 Hs.286940 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopeptides receibles	1.92	Hs. 197805 SRY (sex determining region Y)-hox 30
1.90 Hs.15087 KIAA0250 gene product 1.88 Hs.167927 islet cell autoantigen 1 (69kD) 1.86 Hs.39733 postsynaptic protein CRIPT 1.85 Hs.76722 CCAATenhancer binding protein (CEBP), delta 1.84 Hs.265018 hypothetical protein FLJ20635 1.81 Hs.239737 C-terminal binding protein 1 1.80 Hs.33787 vinexin beta (SH3-containing adaptor molecule-1) 1.80 Hs.279582 GTP-binding protein Sara 1.80 Hs.27428 SMA5 1.74 Hs.28940 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopeptides receibles	1.91	Hs.1621 immunoglobulin mu binding protein 2
1.88 Hs.167927 islet cell autoantigen 1 (69kD) 1.86 Hs.39733 postsynaptic protein CRIPT 1.85 Hs.76722 CCAATenhancer binding protein (CEBP), delta 1.84 Hs.265018 hypothetical protein FLJ20635 1.81 Hs.239737 C-terminal binding protein 1 1.80 Hs.33787 vinexin beta (SH3-containing adaptor molecule-1) 1.80 Hs.279582 GTP-binding protein Sara 1.80 Hs.324728 SMA5 1.79 Hs.44766 retinitis pigmentosa 2 (X-linked recessive) 1.77 Hs.288940 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopeolidese reculates	1.90	Hs.15087 KIAA0250 gene product
1.86 Hs.39733 postsynaptic protein CRIPT 1.85 Hs.76722 CCAATenhancer binding protein (CEBP), delta 1.84 Hs.265018 hypothetical protein FLJ20635 1.81 Hs.239737 C-terminal binding protein 1 1.80 Hs.33787 vinexin beta (SH3-containing adaptor molecule-1) 1.80 Hs.279582 GTP-binding protein Sara 1.80 Hs.224728 SMA5 1.79 Hs.24766 retinitis pigmentosa 2 (X-linked recessive) 1.77 Hs.288940 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopeolidese receives	1.88	Hs.167927 islet cell autoantigen 1 (69kD)
1.85 Hs.76722 CCAATenhancer binding protein (CEBP), delta 1.84 Hs.265018 hypothetical protein FLJ20635 1.81 Hs.239737 C-terminal binding protein 1 1.80 Hs.33787 vinexin beta (SH3-containing adaptor molecule-1) 1.80 Hs.279582 GTP-binding protein Sara 1.80 Hs.324728 SMA5 1.79 Hs.44766 retinitis pigmentosa 2 (X-linked recessive) 1.77 Hs.288940 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopeptides receibles	1.86	Hs.39733 postsynaptic protein CRIPT
1.84 Hs.265018 hypothetical protein FLJ20635 1.81 Hs.239737 C-terminal binding protein 1 1.80 Hs.33787 vinexin beta (SH3-containing adaptor molecule-1) 1.80 Hs.279582 GTP-binding protein Sara 1.80 Hs.324728 SMA5 1.79 Hs.44766 retinitis pigmentosa 2 (X-linked recessive) 1.77 Hs.288940 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopeptides receiptors	1.85	Hs.76722 CCAATenhancer binding protein (CERP) data
1.81 Hs. 239737 C-terminal binding protein 1 1.80 Hs.33787 vinexin beta (SH3-containing adaptor molecule-1) 1.80 Hs.279582 GTP-binding protein Sara 1.80 Hs.324728 SMA5 1.79 Hs.44766 retinitis plgmentosa 2 (X-linked recessive) 1.77 Hs.288940 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopeolidese reculators	1.84	Hs.265018 hypothetical protein FLJ20635
1.80 Hs.33787 vinexin beta (SH3-containing adaptor molecule-1) 1.80 Hs.279592 GTP-binding protein Sara 1.80 Hs.324728 SMA5 Hs.44766 retinitis pigmentosa 2 (X-linked recessive) 1.77 Hs.289940 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopeptides reculates.	1.81	Hs.239737 C-terminal binding protein 1
1.80 Hs.279582 GTP-binding protein Sara 1.80 Hs.324728 SMA5 Hs.44766 retinitis pigmentosa 2 (X-linked recessive) Hs.289840 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopeptides reculates	1.80	Hs.33787 vinexin beta (SH3-containing adaptor molecule-1)
1.80 Hs.324728 SMA5 1.79 Hs.44766 retinitis pigmentosa 2 (X-linked recessive) 1.77 Hs.288940 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopentidese reculates	1.80	Hs.279582 GTP-binding protein Sara
1.77 Hs.288940 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopentidese reculates	1.80	Hs.324728 SMA5
1.77 Hs.288940 five-span transmembrane protein M83 1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopentidese reculates	1.79	Hs.44766 retinitis plamentosa 2 (X-linked recessiva)
1.74 Hs.247043 type 1 tumor necrosis factor receptor shedding aminopentidase regulator	1.77	Hs.288940 five-span fransmembrane protein M92
1.70 Hs.273099 Homo saniens cDNA FI 13742 fis deep DI 07500000	1.74	Hs.247043 type 1 tumor necrosis factor receptor shedding emission in
	1.70	Hs.273099 Homo sapiens cDNA FLJ13712 fis, done PLACE2000394

DOW	N REGULATED IN CHEMOTAXIS COMPARED TO MEDIUM SDF-1 GRADIENTS
1 -10.8	8 IHS.51120 cathelicidin antimicrobial pentide
-10.7	0 Hs.73839 ribonuclease, RNase A family, 3 (ensignabil cationic protein)
-6.33	Hs.76845 phosphoserine phosphatase-like
-6.30	1 Typodiotiodi proteir r Euzougg
-5.27	
-5.25	The state of the s
-5.18	Hs.26319 KIAA0833 protein
-4.78	
-4.51	Provident kinase kinadio 20 (p16, inhibits CDK4)
-4.36	Hs.99863 elastase 2, neutrophil
-4.32	The state of total and a substantily A (Cys-Cys), member 20
-4.31	The state of the s
-4.24	The state of the s
-4.22	1. 1. 1. 1. 1. 1. Okcictal, Silva
-4.14	
-3.96	
-3.89	Hs.306434 Homo saplens mRNA for LST-1N protein
-3.86	
-3.77	Hs.99960 membrane-spanning 4-domains, subfamily A, member 3 (hematopoletic cell-specific)
-3.73	ris.248085 insulin upstream factor 1
-3.66	Hs.152251 frizzled (Drosophila) homolog 5
-3.62	Hs.248115 growth hormone secretagogue receptor
-3.55	Hs.2257 vitronectin (serum spreading factor, somatomedin B, complement S-protein)
-3.50	HS.101915 Stargardt disease 3 (autosomal dominant)
-3.42	Hs.272795 hypothetical protein FLJ20359
-3.41	Hs.6164 hypothetical protein FLJ10698
-3.36 -3.32	Hs. 125783 DEME-6 protein
-3.32	Hs.278984 calcium binding protein 2
-3.29	Hs.154495 acetylcholinesterase (YT blood group)
-3.25	Hs.306763 Homo saplens cDNA: FLJ21442 fls, clone COL04429, highly similar to HSA237839 Homo saplens mRNA for hypothetical protein
-3.16	Hs.286124 CD24 antigen (small cell lung carcinoma cluster 4 antigen)
-3.13	Hs.1378 annexin A3
-3.10	Hs.949 neutrophil cytosolic factor 2 (65kD, chronic granulomatous disease, autosomal 2)
-3.10	Hs.18653 ESTs
-3.03	Hs.106070 cyclin-dependent kinase inhibitor 1C (p57, Kip2)
-2.96	Hs.111867 GLI-Kruppel family member GLI2
-2.95	Hs. 20315 Interferon-induced protein with tetratricopeptide repeats 1
-2.92	Hs.317169 hypothetical protein MGC10715
-2.89	Hs.26208 collagen, type XVI, alpha 1
-2.83	Hs.222153 ESTs, Moderately similar to archvillin H.saplens
-2.78	Hs.226396 hypothetical protein FLJ11126
-2.73	Hs.58116 homeo box A2
-2.71	Hs.75608 tight junction protein 2 (zona occludens 2)
-2.69	Hs.21223 calponin 1, basic, smooth muscle
-2.69	Hs.251664 insulin-like growth factor 2 (somatomedin A)
-2.69	Hs.33084 solute carrier family 2 (facilitated glucose transporter), member 5
	Hs.241053 ESTs
-2.57	Hs.2582 defensin, alpha 4, corticostatin
-2.56	Hs.22972 hypothetical protein FLJ13352
	Hs.179747 ecotropic viral integration site 5
-2.52	Hs. 133342 Homo sapiens clone 24566 mRNA sequence
	Hs.239737 C-terminal binding protein 1
-2.49	Hs.91971 cAMP-regulated guanine nucleotide exchange factor II
-2.48	Hs.9291 Homo sapiens cDNA FLJ13511 fis, done PLACE1005331, highly similar to Homo sapiens 7h3 protein
	mRNA (Scrib FEACE 1005331, nightly similar to Homo sapiens 7h3 protein

Sheet 3 of 4

-2.48	The state of the s
-2.47	
-2.45	
-2.45	HS.296355 Homo sapiens cDNA; FLJ23138 fis. clone LNG08913
-2.45	Hs.19131 transcription factor Dp-2 (E2F dimerization partner 2)
-2.45	Hs.274463 defensin, alpha 1, myeloid-related sequence
-2.43	Hs.112049 SET binding factor 1
-2.43	
-2.42	
	Time on bioto op an for a fitulated allete
-2.37	
-2.35	Hs.21858 trinucleotide repeat containing 3
-2.35	Hs.23796 odz (odd Ozten-m, Drosophila) homolog 1
-2.33	
-2.29	
-2.29	Hs.31432 cardiac ankyrin repeat protein
-2.28	1
-2.24	Hs.41716 endothelial cell-specific molecule 1
-2.24	Hs.307353 Homo saplens Chromosome 16 BAC clone CIT987SK-44M2
-2.22	Hs.292853 ESTs
-2.19	Hs.106552 cell recognition molecule Caspr2
-2,16	Hs.247910 Homo sapiens isolate donor N clone N88K immunoglobulin kappa light chain variable region mRNA.
-2,14	I Partair 000
-2.14	Hs.93597 cyclin-dependent kinase 5, regulatory subunit 1 (p35)
-2.01	Hs.283683 chromosome 8 open reading frame 4
-2.01	Hs.289056 ESTs, Highly similar to 1312232A kininogen L,high MW H.sapiens
-1.99	Hs.248190 UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyitransferase 4 (GalNAc-T4)
-1.95	Ins.324730 glutatnione S-transferase M1
-1.95	Hs.3628 mitogen-activated protein kinase kinase kinase 4
	Hs.181107 annexin A13
-1.94	Hs.66392 Intersectin 1 (SH3 domain protein)
-1.94	Hs.3781 similar to murine leucine-rich repeat protein
-1.90	Hs. 1265 branched chain keto acid dehydrogenase E1, beta polypeptide (maple syrup urine disease)
-1.89	Hs.957 putative opioid receptor, neuromedin K (neurokinin B) receptor-like
-1.86	Hs.283330 hypothetical protein PRO1843
-1.82	Hs.249727 hypothetical protein FLJ11798
-1.81	Hs.82685 CD47 antigen (Rh-related antigen, integrin-associated signal transducer)
-1.79	Hs.184860 CGI-203 protein
-1.74	Hs. 212587 Homo sapiens mRNA; cDNA DKFZp566M043 (from clone DKFZp566M043)

Table 6 Differential Gene Expression in Medium vs Fugetaxis SDF-1 Gradients

UP REGULATED IN FUGETAXIS COMPARED TO MEDIUM SDF-1 GRADIENTS 45.94 Hs.80358 SMC (mouse) homolog, Y chromosome 42.44 Hs.180911 ribosomal protein S4, Y-linked 28.32 Hs.99120 DEADH (Asp-Glu-Ala-AspHis) box polypeptide, Y chromosome 13.76 Hs.155397 Homo sapiens mRNA; cDNA DKFZp564K143 (from clone DKFZp564K143) 10.45 Hs.193145 ubiquitin specific protease 9, Y chromosome (Drosophila fat facets related) 10.07 Hs. 155103 eukaryotic translation initiation factor 1A, Y chromosome 8.93 Hs.78913 chemokine (C-X3-C) receptor 1 8.52 Hs.2014 T cell receptor delta locus 7.9 Hs.100000 S100 calcium-binding protein A8 (calgranulin A) Hs.99120 DEADH (Asp-Glu-Ala-AspHis) box polypeptide, Y chromosome 6.58 Hs.3195 small inducible cytokine subfamily C, member 1 (lymphotactin) 6.36 Hs.73931 major histocompatibility complex, class II, DQ beta 1 6.02 Hs.75184 chitinase 3-like 1 (cartilage glycoprotein-39) 5.57 Hs.76536 transducin (beta)-like 1 5.25 Hs.194366 transthyretin (prealbumin, amyloidosis type I) 5.1 Hs.19413 S100 calcium-binding protein A12 (calgranulin C) Hs.251419 Homo sapiens DNA sequence from PAC 845O24 on chromosome 1p36.1-36.2. Contains a gene for a Heterogenous Nuclear Ribonucleoprotein HNRNP C1 LIKE protein and four genes similar to Melanoma Preferentially Expressed Antigen PRAME and KIAA0014. Conta 5.01 Hs.156110 immunoglobulin kappa constant gb:AF262973.1 /DEF=Homo saplens killer cell immunoglobulin-like receptor 3DL1 (KIR3DL1) mRNA, KIR3DL1*00701 allele, complete cds. Hs.326737 Homo sapiens, clone MGC:4655, mRNA, complete cds 4.84 Hs.50929 hypothetical protein FLJ13842 4.72 Hs.57975 calsequestrin 2 (cardiac muscle) 4.54 Hs.7358 hypothetical protein FLJ13110
4.51 Hs.177605 killer cell lectin-like receptor subfamily C, member 2 4.44 Hs.79691 LIM domain protein 4.33 Hs.37142 ephrin-A5 4.31 Hs.198396 ATP-binding cassette, sub-family A (ABC1), member 4 4.29 Hs.179665 cyclin-dependent kinase inhibitor 1A (p21, Cip1) 4.15 Hs.8108 disabled (Drosophlia) homolog 1 4.15 Hs.54481 low density lipoprotein receptor-related protein 8, apolipoprotein e receptor Hs.77436 pleckstrin Hs.44278 hypothetical protein FLJ12538 similar to ras-related protein RAB17 3.91 Hs.123030 Human kappa-Immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II) 3.89 Hs.2730 heterogeneous nuclear ribonucleoprotein L 3.87 Hs.7936 BAI1-associated protein 2 3.85 Hs.112278 arrestin, beta 1 3.82 Hs.75573 centromere protein E (312kD) 3.82 gb:NM_000961.1 /DEF=Homo sapiens prostaglandin l2 (prostacyclin) synthase (PTGIS), mRNA.
3.82 Hs.79706 plectin 1, intermediate filament binding protein, 500kD 3.8 Hs.56336 protein kinase, Y-linked 3.79 Hs.306691 Homo saplens cDNA: FLJ20915 fis, clone ADSE00692 3.76 Hs.182740 ribosomal protein S11 3.76 Hs.9873 likely homolog of rat kinase D-interacting substance of 220 kDa; KIAA1250 protein 3.69 Hs.199250 chloride channel 4 3.66 gb:NM_030615.1 /DEF=Homo saplens kinesin-like 3 (KNSL3), transcript variant 1, mRNA Hs.10235 chromosome 5 open reading frame 4 3.66 3.62 Hs.313951 ESTs 3.6 Hs.294158 tryptase bela 2 3.6 Hs.307187 H.sapiens mRNA for soluble delta TCR 3.57 Hs.132560 hypothetical protein FLJ10312 3.56 Hs.272366 Homo sapiens partial IGVH3 gene for immunoglobulin heavy chain V region, case 2, cell E 172 3.55 Hs.8850 a disintegrin and metalloproteinase domain 12 (meltrin alpha) 3.55 Hs.21486 signal transducer and activator of transcription 1, 91kD gb:AF263617.1 /DEF=Homo sapiens killer cell Immunoglobulin-like receptor 3DL2 (KIR3DL2) mRNA 3.54 KIR3DL2*00901 allele, complete cds

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	Hs.169910 KIAA0173 gene product
3.52	Hs.250502 carbonic anhydrase VIII
3.5	Hs.2352 adenylate cyclase 2 (brain)
	gb:M32577.1 /DEF=Human MHC HLA-DQ beta mRNA, complete cds.
3.48	Hs.269926 Homo sapiens cDNA: FLJ21441 fis, clone COL04422
3.47	Hs.155103 eukaryotic translation initiation factor 1A, Y chromosome
	Hs.171814 parathymosin
	Hs.203846 TEA domain family member 3
	Hs.2142 5-hydroxytryptamine (serotonin) receptor 3A
	Hs.14642 chromosome 16 open reading frame 3
	Hs.76722 CCAATenhancer binding protein (CEBP), delta
3.36	Hs.64311 a disintegrin and metalloproteinase domain 17 (tumor necrosis factor, alpha, converting enzyme)
	Hs.177961 Human Chromosome 16 BAC clone CIT987SK-A-388D4
3.35	Hs.153985 solute carrier family 7 (cationic amino acid transporter, y+ system), member 2
	Hs. 137569 tumor protein 63 kDa with strong homology to p53
3.34	Hs.132942 GTP ase regulator associated with the focal adhesion kinase pp125(FAK); KIAA0621 protein
3.32	Hs.278962 AIM-1 protein
3.31	Hs.104624 aquaporin 9
	Hs.12079 calsyntenin-2
	Hs.326198 transcription factor 4
	Hs.127384 DKFZP564C196 protein
	Hs.257174 hypothetical protein FLJ10601
	granulysin
	Hs.171596 EphA2
3.15	gb:NM_030773.1 /DEF=Homo sapiens beta tubulin 1, class VI (TUBB1), mRNA.
3.15	Hs.75137 KIAA0193 gene product
3.11	natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A)
3.1	Hs.164960 Bart-like homeobox 1
3.09	Hs.181581 glutamate receptor, ionotropic, kainate 1
	Hs.82112 interleukin 1 receptor, type i
	Hs.287662 Homo saplens cDNA: FLJ21424 fls, clone COL04157
	Hs.130546 hypothetical protein FLJ20449
	Hs.2014 T cell receptor delta locus
3.02	Hs.75617 collagen, type IV, alpha 2
3	Hs.58014 G protein-coupled receptor, family C, group 5, member C
2.99	Hs.118695 potassium voitage-gated channel, subfamily G, member 1
2.99	Hs.247741 protocadherin alpha 2
	Hs.13040 G protein-coupled receptor 86
2.98	Hs.69319 CA11
	Hs.146409 cell division cycle 42 (GTP-binding protein, 25kD)
2.97	Hs.79876 steroid sulfatase (microsomal), arylsulfatase C, isozyme S
	Hs.325722 Immunoglobulin kappa variable 3D-15
2.93	Hs.284277 Homo sapiens immunogiobulin mu chain entibody MO30 (IgM) mRNA, complete cds
2.87	gb:AF349720.1 /DEF=Homo sapiens magphinin beta (TRO) mRNA, complete cds.
2.82	Hs.79706 plectin 1, Intermediate filament binding protein, 500kD
2.79	Hs.694 interleukin 3 (colony-stimulating factor, multiple)
2.79	Hs.131361 pyruvate dehydrogenase (lipoamide) alpha 2
2.74	Hs.265848 similar to rat myomegalin
2.72	Hs.274230 3-phosphoadenosine 5-phosphosulfate synthase 2
2.72	Hs.306643 Homo sapiens cDNA FLJ13302 fis, clone OVARC1001357
2.71	Hs.153837 myeloid cell nuclear differentiation antigen
2.71	Hs.621 lectin, galactoside-binding, soluble, 3 (galectin 3)
2.69	Hs.227751 lectin, galactoside-binding, soluble, 1 (galectin 1)
2.69	Hs.84152 cystathionine-beta-synthase
2.69	Hs.48778 niban protein
2.68	Hs.158315 interleukin 18 receptor accessory protein
2.67	Hs.8074 brain-specific angiogenesis inhibitor 3
2.66	Hs.1915 folate hydrolase (prostate-specific membrane antigen) 1
	It is to to totate trigitates (prostate-speciale monthlette anagon) i



	0.10
2.66	Hs.24322 ATPase, H+ transporting, lysosomal (vacuolar proton pump) 9kD
2.64	Hs.18387 transcription factor AP-2 alpha (activating enhancer-binding protein 2 alpha)
2.63	Hs.118786 metallothlonein 2A
2.62	Hs.119571 collagen, type III, alpha 1 (Ehlers-Danios syndrome type IV, autosomal dominant)
2.59	Hs.10086 type I transmembrane protein Fn14
2.59	Hs.22599 atrophin-1 interacting protein 1; activin receptor interacting protein 1
2.59	Hs.8982 ESTs, Highly similar to KIAA1395 protein H.saplens
2.54	Hs.235935 nephroblastoma overexpressed gene
2.53	Hs.44205 contistatin
2.52	Hs.692 tumor-associated calcium signal transducer 1
2.52	Hs.31792 hypothetical protein FLJ11082
2.52	Hs.282693 ESTs
2.51	Hs.223014 antizyme inhibitor
2.5	Hs.96744 prostate androgen-regulated transcript 1
2.5	Hs.41696 keratin, hair, acidic,1
2.49	Hs.184915 zinc finger protein, Y-linked
2.48	Hs.156346 topoisomerase (DNA) II alpha (170kD)
	Hs. 123079 Glutamate transporter II variant BHBGT IIB (5 region) human, brain and spinal cord, mRNA Partial
2.48	
2.48	Mutant, 129 nt Hs.74085 DNA segment on chromosome 12 (unique) 2489 expressed sequence
	Hs. 248189 keratin, hair, acidic, 6
2.47	Hs.76807 major histocompatibility complex, class II, DR alpha
2.46	Hs.157429 SRY (sex determining region Y)-box 3
2.46	Hs.274691 adenylate kinase 3
2.42	Hs.288079 spinocerebellar ataxia 8
2.38	Hs.103124 ATPase, Ca++ transporting, plasma membrane 3
2.38	Hs.90821 ryanodine receptor 2 (cardiac)
2.34	Hs. 32101 pleckstrin homology-like domain, family A, member 1
2.3	Hs.88411 lymphocyte antigen 117
2.29	Hs.29287 retinoblastoma-binding protein 8
2.29	Hs.301839 intracellular antigen detected by monoclonal antibody KI-1; intracellular hyaluronan-binding protein
2.28	Hs.294158 tryptase beta 2
2.28	Hs.308026 major histocompatibility complex, class II, DR beta 5
2.27	Hs.128749 alpha-methylacyl-CoA racemase
2.27	Hs.77202 protein kinase C, beta 1
2.26	Hs.54481 low density lipoprotein receptor-related protein 8, apolipoprotein e receptor
2.25	Hs.258580 purinergic receptor P2X, Ilgand-gated lon channel, 2
2.25	Hs.78944 regulator of G-protein signalling 2, 24kD
2.24	Hs.88411 lymphocyte antigen 117
2.24	Hs.166186 chordin
2.24	Hs.284244 fibroblast growth factor 2 (basic)
2.22	Hs.77886 lamin AC
2.22	Hs.110637 homeo box A10
2.22	Hs.76136 thioredoxin
2.21	Hs.89472 anglotensin receptor 1
2.21	Hs.7242 Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 35907
2.2	Hs.201737 hypothetical protein FLJ14050
2.2	Hs.24385 Human hbc647 mRNA sequence
2.2	Hs.154762 HIV-1 rev binding protein 2
2.19	Hs.159971 SWISNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1
2.19	Hs.62954 femtin, heavy polypeptide 1
2.18	Hs.201776 zinc finger, imprinted 2
2.18	Hs.272376 olfactory receptor, family 1, subfamily A, member 1
2.18	Hs.280380 aminopeptidase
2.18	Hs.267819 protein phosphatase 1, regulatory (inhibitor) subunit 2
2.17	Hs.105115 absent in melanoma 2
2.16	Hs.121084 eppin-3
2.16	Hs.293205 ESTs, Weakly similar to BC39498 1 H.sapiens



2.15	ILL 07094 harshouse ordinar 04 (married by 1914)
	Hs.97084 lymphocyte antigen 94 (mouse) homolog (activating NK-receptor; NK-p46)
2.15	Hs.93728 pre-B-cell leukemia transcription factor 2
2.14	
2.14	Hs.246107 elongation of very long chain fatty acids (FEN1Elo2, SUR4Elo3, yeast)-like 2
2.14	Hs.226025 vacuolar protein sorting 45A (yeast homolog)
2.14	Hs.69547 myelin basic protein
2.14	Hs.311 phosphoribosyl pyrophosphate amidotransferase
2.13	Hs.88411 lymphocyte antigen 117
2.13	Hs.287431 hypothetical protein FLJ11598
2.13	Hs.278486 olfactory receptor, family 1, subfamily E, member 2
2.13	Hs.8349 Apobec-1 complementation factor; APOBEC-1 stimulating protein
2.13	Hs.77436 pleckstrin
2.12	Hs.306955 Homo sapiens rab3 interacting protein variant 6 mRNA, partial cds
2.12	Hs.821 biglycan
2.11	Hs.288771 DKFZP586A0522 protein
2.1	Hs.225641 hypothetical protein FLJ13171
2.1	Hs.75825 pleiomorphic adenoma gene-like 1
2.09	Hs.241570 tumor necrosis factor (TNF superfamily, member 2)
2.08	Hs.727 inhibin, beta A (activin A, activin AB alpha polypeptide)
2.08	Hs.164371 hypothetical protein FLJ12439
2.08	Hs.94210 eyes absent (Drosophila) homolog 1
2.08	Hs.306455 Homo sapiens mRNA; cDNA DKFZp434K1126 (from clone DKFZp434K1126)
2.07	Hs.69049 tocopherol (alpha) transfer protein (ataxia (Friedreich-like) with vitamin E deficiency)
2.07	Hs.181353 UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2
2.06	Hs.171811 adenylate kinase 2
2.05	Hs.84298 CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)
2.04	gb:K03226.1 /DEF=Human preprourokinase mRNA, complete cds.
2.04	Hs.858 v-rel avian reticuloendotheliosis viral oncogene homolog B (nuclear factor of kappa light polypeptide
	gene enhancer in B-cells 3)
2.03	Hs.41707 heat shock 27kD protein 3
2.03	Hs.150443 KIAA0320 protein
2.03	Hs.64639 glioma pathogenesis-related protein
2.03	Hs.77910 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble)
2.03	Hs.3844 LIM domain only 4
2.02	Hs.288869 nuclear receptor subfamily 2, group F, member 2
2.02	Hs.36766 HT017 protein
2.02	Hs.1076 small proline-rich protein 1B (cornifin)
2.02	Hs.306711 Homo saplens cDNA: FLJ21215 fis, done COL00526
2.02	Hs.479 RAB5C, member RAS oncogene family
2.01	Hs.78672 laminin, alpha 4
2.01	Hs.164568 fibroblast growth factor 7 (keratinocyte growth factor)
2.01	Hs.102471 KIAA0680 gene product
2	Hs.143212 cystatin F (leukocystatin)
2	Hs.29352 tumor necrosis factor, alpha-induced protein 6
2	Hs.153924 death-associated protein kinase 1
2	Hs.182575 solute carrier family 15 (H+peptide transporter), member 2
1.99	Hs.158330 neuropeptide Y receptor Y5
1.99	Hs.169246 melanoma antigen, family A, 12
1.99	Hs.6580 Homo saplens cDNA: FLJ23227 fis, done CAE00645, highly similar to AF052138 Homo saplens clone
	23718 mRNA sequence
1.98	Hs.35101 proline-rich Gla (G-carboxyglutamic acid) polypeptide 2
1.98	Hs.41270 procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase) 2
1.97	Hs.13046 thloredoxin reductase 1
1.97	Hs.2667 metallothionein 1H
1.96	Hs.1481 histidine decarboxylase
1.96	Hs.100194 arachidonate 5-lipoxygenase-activating protein
1.95	Hs.41143 phosphoinositide-specific phospholipase C-beta 1
1.94	Hs.166072 annexin A2 pseudogene 2



Table 6 .

Differential Gene Expression in Medium vs Fugetaxis SDF-1 Gradients

	Hs.295112 KIAA0618 gene product
1.94	M24537B subtilis pheB, pheA genes corresponding to nucleotides 2017-3334 of M24537 (-5, -M, -3
	represent transcript regions 5 prime, Middle, and 3 prime respectively)
	Hs.48778 niban protein
1.93	Hs.29206 Homo sapiens clone 24659 mRNA sequence
1.93	gb:J04755.1 /DEF=Human ferritin H processed pseudogene, complete cds.
1.92	Hs.306508 Homo sapiens mRNA; cDNA DKFZp762O1415 (from clone DKFZp762O1415)
	Hs.13223 Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 51358
1.92	Hs.21838 hypothetical protein FLJ11191
1.91	Hs.211585 6-phosphofructo-2-kinasefructose-2,6-blphosphatase 2
	Hs.7358 hypothetical protein FLJ13110
	Hs.195175 CASP8 and FADD-like apoptosis regulator
	Hs.848 FK506-binding protein 4 (59kD)
1.9	Hs.2090 prostaglandin E receptor 2 (subtype EP2), 53kD
1.89	Hs.288983 hypothetical protein FLJ21477
	Hs.50947 T-box 5
	Hs.217493 annexin A2
1.88	Hs.306322 Homo sapiens mRNA; cDNA DKFZp566D153 (from clone DKFZp566D153)
	Hs.158688 KIAA0741 gene product
1.87	Hs.282847 pregnancy specific beta-1-glycoprotein 3
	Hs.239764 /len=924
1.87	Hs.217493 annexin A2
1.87	Hs.217493 annexin A2
1.86	Hs.1521 immunoglobulin mu binding protein 2
	Hs.18878 hypothetical protein FLJ21620
1.85	Hs.302022 PR domain containing 16
1.85	erythropoletin receptor
	Hs.173451 metallothloneln 1G
1.85	Hs.293266 sperm protein associated with the nucleus, X chromosome, family member A1
1.84	Hs.180919 inhibitor of DNA binding 2, dominant negative helix-loop-helix protein
1.83	Hs.98303 cavedin 3
1.83	Hs.283725 hypothetical protein FLJ12627
1.83	Hs.274509 T cell receptor gamma constant 2
1.83	Hs.306305 Homo sapiens mRNA; cDNA DKFZp564L102 (from clone DKFZp564L102)
1.83	Hs.119285 /len=716
	Hs.107526 UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5
1.82	Hs.112259 T cell receptor gamma locus
1.82	Hs.195175 CASP8 and FADD-like apoptosis regulator
	Hs.132781 class I cytokine receptor
1.82	Hs.326392 son of sevenless (Drosophila) homolog 1
1.82	
1.81	Hs.77886 lamin AC
1.8	Hs.287445 hypothetical protein FLJ11726 Homo sapiens mRNA; cDNA DKFZp586D0918 (from clone DKFZp586D0918)
1.8	
1.79	intersectin 1 (SH3 domain protein)
1.79	Hs.272564 muscle disease-related protein
1.79	Hs.88474 prostaglandin-endoperoxide synthase 1 (prostaglandin GH synthase and cyclooxygenase)
1.78	Hs.112259 T cell receptor gamma locus
1.78	gb:NM_031286.1 /DEF=Homo sapiens SH3BGRL3-like protein (SH3BGRL3), mRNA.
1.77	Hs.287388 histamine H4 receptor
1.77	Hs.211556 hypothetical protein MGC5487
1.77	Hs.195175 CASP8 and FADD-like apoptosis regulator
1.77	Hs.248183 olfactory receptor, family 1, subfamily G, member 1
1.77	Hs.273294 hypothetical protein FLJ20069
1.77	KIAA0674 protein
1.76	growth arrest and DNA-damage-inducible 34
1.76	Hs.110915 interleukin 22 receptor
1.76	Hs.102471 KIAA0680 gene product
1.75	Hs.75825 pleiomorphic adenoma gene-like 1



	Hs.61152 exostoses (multiple)-like 2
1.75	Hs.195175 CASP8 and FADD-like apoptosis regulator
1.75	Hs.194019 attractin
	Hs.2200 perforin 1 (pore forming protein)
1.74	Hs.1334 v-myb avian myeloblastosis viral oncogene homolog
1.74	Hs.217493 annexin A2
	Hs.293934 major histocompatibility complex, class II, DR beta 4
	Hs.142023 T cell activation, increased late expression
1.73	gb:NM_031283.1 /DEF=Homo sapiens HMG-box transcription factor TCF-3 (TCF-3), mRNA.
1.73	Hs.122939 /len=646
1.73	Hs.80758 aspartyl-IRNA synthetase
1.73	Hs.270010 KIAA0508 protein
1.72	Hs.169222 acrosomal vesicle protein 1
1.72	Hs.6654 KIAA0657 protein
	Hs.73291 hypothetical protein FLJ10881
	Hs.50964 carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
1.71	Hs.250615 cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 7
1.71	Hs.153445 Human mRNA for unknown product, partial cds
1.71	Hs.112259 T cell receptor gamma locus
1.71	Hs.272327 Homo sapiens mRNA; cDNA DKFZp434K0423 (from clone DKFZp434K0423); partial cds
1.71	Hs.76536 transducin (beta)-like 1
1.71	3-phospholnositide dependent protein kinase-1
1.71	Hs.198281 pyruvate kinase, muscle
1.71	Hs.177543 antigen identified by monoclonal antibodies 12E7, F21 and O13
1.7	Hs.195175 CASP8 and FADD-like apoptosis regulator
1.7	Hs.154868 carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase
1.7	Hs.289053 hypothetical protein FLJ12474



DOWAL	REGULATED IN FUGETAXIS COMPARED TO MEDIUM SDF-1 GRADIENTS
21.07	Hs.323342 actin related protein 23 complex, subunit 4 (20 kD)
	Hs.78409 collagen, type XVIII, alpha 1
	Hs.46907 HEMK homolog 7kb
	Hs.15075 hypothetical protein DKFZp434E2216
-8.93	Hs.93597 cyclin-dependent kinase 5, regulatory subunit 1 (p35)
-8.88	Hs.85752 uncharacterized hematopoletic stemprogenitor cells protein MDS026
-8.84	Hs. 29222 zinc finger protein 76 (expressed in testis)
	Hs.53155 properdin P factor, complement
-7.73	Hs.289031 hypothetical protein FLJ11848
-7.72	Hs.76845 phosphoserine phosphatase-like
-7.62	Hs.279881 alpha 1,2-mannosidase
	DOM-3 (C. elegans) homolog Z
-7.43	Hs.74047 electron-transfer-flavoprotein, bela polypeptide
-7.38	Hs.154797 KIAA0090 protein
	Hs.305960 hemoglobin, gamma A
-7.3	Hs.6051 KIAA0616 protein
-7.18	Hs.25477 hypothetical protein FLJ21044 similar to Rbig1
-7.05	Hs.306434 Homo sapiens mRNA for LST-1N protein
-7.03	Hs.76289 biliverdin reductase B (flavin reductase (NADPH))
-7.01	Hs.109441 hypothetical protein FLJ20707
-6.51	Hs.238679 Rag D protein
-6.47	Hs.38628 hypothetical protein
6.41	Hs.3743 matrix metalloproteinase 24 (membrane-inserted)
-6.33	Hs.198161 phospholipase A2, group IVB (cytosolic)
-6.3	Hs.306781 Homo sapiens cDNA: FLJ21535 fis, clone COL06131
	Hs.205450 hypothetical protein FLJ22570
-6 12	Hs.155979 KIAA0295 protein
	Hs.12142 WD repeat domain 13
	Hs.99603 hypothetical protein FLJ13134
-5.79	Hs.226398 hypothetical protein FLJ11126
-5.53	
-5.51	
	Hs.279862 cdk inhibitor p21 binding protein
	Hs.8128 phosphatidylserine decarboxylase
-5.32	Hs.26045 protein tyrosine phosphatase, receptor type, A
-5.13	
-5.01	
-4.97	Hs.79340 PTH-responsive osteosarcoma B1 protein
-4.96	Hs.36977 hemoglobin, delta
-4.92	Hs.278483 H4 histone family, member E
-4.9	Hs.97176 hypothetical protein FLJ13906 similar to RING finger protein
-4.9	Hs.2399 matrix metalloproteinase 14 (membrane-inserted)
-4.85	
-4.8	Hs.12820 SnRNP assembly defective 1 homolog
-4.8	Hs.129903 polymerase (DNA-directed), lambda
-4.8	Hs,7943 RPB5-mediating protein
-4.78	Hs.328457 ESTs
	Hs.325530 KIAA1067 protein
-4.64	Hs.197335 plasma glutamate carboxypeptidase
-4.56	Hs.6092 f-box and leucine-rich repeat protein 2
-4.55	Hs.159241 polycystic kidney disease 2-like 1
-4.47	
	pigmentosum D)
-4.45	Hs.155204 zinc finger protein 174
	Hs.11135 major histocompatibility complex, class II, DN alpha
-4.39	Hs.20017 chromosome 22 open reading frame 4

F 4 3	
-4.3 -4.3	
-4.2	ins. 156115 polassium voltage-gated channel, KQT-like subfamily, member 1
-4.28	
	KDA REGULATORY SUBUNIT A, BETA ISOFORM H saniens
-4.22	Hs.300772 tropomyosin 2 (beta)
-4.2	Hs.283404 organic cation transporter
-4.18	Hs.103839 erythrocyte membrane protein band 4 1-like 3
-4.18	Hs. 101874 mouse double minute 4, human homolog of; p53-binding protein
-4.13	Hs.33818 RecQ protein-like 5
-4.1	Hs.121102 vanin 2
-4.09	Hs.22370 Homo sapiens mRNA; cDNA DKFZp564O0122 (from clone DKFZp564O0122)
-4.06	Ins.36 lymphotoxin alpha (TNF superfamily, member 1)
-4.06	M10098 Human 18S rRNA sequence, length 1969 bases, middle target bases 647-1292
-4.05	Hs.79386 lelomodin 1 (smooth muscle)
-4.02	Hs.110796 SAR1 protein
-4.01	
-3.99	Hs.272108 ESTs
-3.98	Hs.112751 KIAA0892 protein
-3.98	Hs.47822 Rho guanine exchange factor (GEF) 11
-3.96	Hs.90443 NADH dehydrogenase (ubiquinone) Fe-S protein 8 (23kD) (NADH-coenzyme Q reductase)
-3.94	Hs.7426 KIAA0841 protein
-3.9	Hs.154085 leucine zipper protein 1
-3.89	gb:NM_030925.1 /DEF=Homo sapiens hypothetical protein E1 112577 (E) 112577 PDNA
-3.86	[175.102007 S00]um-dependent high-affinity dicarboydate transporter 2
-3.81	gb:8C006441.1 /DEF=Homo saplens, Similar to RNA polymerase I transcription factor RDN3, close
- 0.04	interiore, mirror, complete cus.
-3.81	Hs.9857 carbonyl reductase
-3.79 -3.77	Hs.119498 thyroid hormone receptor interactor 6
-3.76	Hs. 194148 v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1
-3.75	Hs.277401 bromodomain adjacent to zinc finger domain, 2A
-3.74	Hs.78921 A kinase (PRKA) anchor protein 1
0.74	Hs.278064 Homo sapiens cDNA: FLJ23327 fis, clone HEP12630, highly similar to HSZNF37 Homo sapiens ZNF37A mRNA for zinc finger protein
-3.73	Igb:NM_030930.1 /DEF=Homo saplens unc93 (C elegans) homolog 8 (UNCO2E) - DAM
-3.7	Hs.1265 branched chain keto acid dehydrogenase E1, beta polypeptide (maple syrup urine disease)
-3.69	173.46269 Vaccinia related kinase 1
-3.66	Hs.168670 peroxisomal famesylated protein
-3.66	Hs.155597 D component of complement (adipsin)
-3.66	Hs.291972 ESTs, Moderately similar to SC14 HUMAN SEC14-LIKE PROTEIN H senions
-3.64	Hs.13405 gephyrin
-3.64	Hs.7019 signal-induced proliferation-associated gene 1
-3.61	Hs.285005 mitochondrial import receptor Tom22
-3.61	Hs.210546 Interleukin 21 receptor
	KIAA1117 protein
-3.57	Hs.44865 lymphoid enhancer binding factor-1
-3.57	Hs.23585 KIAA1078 protein
-3.56 -3.56	Hs.14846 Homo saplens mRNA; cDNA DKFZp564D016 (from clone DKFZp564D016)
	Hs.47344 advillin
-3.53	Hs.296821 Human facioscapulohumeral muscular dystrophy (FSHD) gene region, D4Z4 tandem repeat unit
-3.00	15.2000 bottle gamma-carpoxyglutamate (gla) protein (osteocalcin)
-3.47	Hs.80741 propionyl Coenzyme A carboxylase, alpha polypeptide
~/	Hs.59544 excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence)
-3.47	Hs.248007 Human beta-cytoplasmic adin (ACTBP9) pseudogene
-3.47	Hs.300496 mitochondrial solute carrier
-3.45	Hs. 111244 hypothetical protein
-3.44	ds.193716 complement component (3b4b) receptor 1, including Knops blood group system
-3.37	ds.79064 deoxyhypusine synthase

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	Hs.5378 spondin 1, (f-spondin) extracellular matrix protein
-3.35	Hs.94229 hypothetical protein FLJ11939
-3.33	gb:M24669.1 /DEF=Human Ig rearranged H-chain V-region mRNA (C-D-JH6), complete cds.
-3.33	Hs.16193 Homo sapiens mRNA; cDNA DKFZp586B211 (from clone DKFZp586B211)
	Hs.5353 caspase 10, apoptosis-related cysteine protease
-3.32	Hs.117242 meningloma expressed antigen 6 (coiled-coil proline-rich)
-3.3	Hs.5378 spondin 1, (f-spondin) extracellular matrix protein
-3.29	Hs. 203269 ESTs, Moderately similar to ALU8_HUMAN ALU SUBFAMILY SX SEQUENCE CONTAMINATION
-3.29	WARNING ENTRY H.sapiens
-3.27	Hs.184523 KIAA0965 protein
	Homo sapiens chromosome 19, cosmid R28784, complete sequence.
	Hs.21542 KIAA1035 protein
	Hs.83765 dihydrofolate reductase
-3.25	Hs.283860 Homo sapiens partial mRNA for MOZCBP chimeric transcript type II
	Hs.168625 androgen-induced prostate proliferative shutoff associated protein
	Hs.9846 KIAA1040 protein
-3.23	Hs.104916 hypothetical protein FLJ21940
	gb:BC006222.1 /DEF=Homo sapiens, clone MGC:10279, mRNA, complete cds.
	Hs.73980 troponin T1, skeletal, slow
	Hs.85195 myeloid leukemia factor 1
	Hs.288697 hypothetical protein MGC11349
	Hs.26899 KIAA0285 gene product
	Hs.262869 plasminogen-like
	Hs.226581 COX15 (yeast) homolog, cytochrome c oxidase assembly protein
-3.16	Hs.4854 cyclin-dependent kinase Inhibitor 2C (p18, inhibits CDK4)
-3.15	Hs.184938 Novel human gene mapping to chomosome 13
	Hs.44697 ATPase, Class V, type 10C
	Hs.25155 neuroepithelial cell transforming gene 1
	Hs.267263 hypothetical protein
-3.13	Hs.21361 KIAA1023 protein Hs.180686 ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome)
-3.11	
-3.11	Hs.86178 M-phase phosphoprotein 9
-3.11 -3.1	Hs.86178 M-phase phosphoprotein 9
-3.11 -3.1 -3.08	Hs.86178 M-phase phosphoprotein 9 Hs.31324 zinc finger protein 155 (pHZ-96)
-3.11 -3.1 -3.08 -3.06	Hs.86178 M-phase phosphoprotein 9 Hs.31324 zinc finger protein 155 (pHZ-96) Hs.61712 pyruvale dehydrogenase kinase, isoenzyme 1
-3.11 -3.08 -3.06 -3.06	Hs.86178 M-phase phosphoprotein 9 Hs.31324 zinc finger protein 155 (pHZ-96) Hs.61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs.103839 erythrocyte membrane protein band 4.1-like 3
-3.11 -3.1 -3.08 -3.06 -3.06 -3.06	Hs.86178 M-phase phosphoprotein 9 Hs.31324 zinc finger protein 155 (pHZ-96) Hs.61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs.103839 erythrocyte membrane protein band 4.1-like 3 Hs.292998 ESTS
-3.11 -3.08 -3.06 -3.06	Hs.86178 M-phase phosphoprotein 9 Hs.31324 zinc finger protein 155 (pHZ-96) Hs.61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs.103839 erythrocyte membrane protein band 4.1-like 3 Hs.292998 ESTS Hs.31476 Homo sapiens cDNA FLJ13872 fls, clone THYRO1001322
-3.11 -3.1 -3.08 -3.06 -3.06 -3.06 -3.05 -3.04	Hs.86178 M-phase phosphoprotein 9 Hs.31324 zinc finger protein 155 (pHZ-96) Hs.61712 pyruvate dehydrogenase kinase, Isoenzyme 1 Hs.103839 erythrocyte membrane protein band 4.1-like 3 Hs.292998 ESTs Hs.31476 Homo sapiens cDNA FLJ13872 fis, clone THYRO1001322 Hs.26471 Homo sapiens clone HQ0692
-3.11 -3.1 -3.08 -3.06 -3.06 -3.06 -3.05 -3.04	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvate dehydrogenase kinase, Isoenzyme 1 Hs. 103839 erythrocyte membrane protein band 4.1-like 3 Hs. 292998 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fis, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7
-3.11 -3.1 -3.08 -3.06 -3.06 -3.06 -3.05 -3.04	Hs.86178 M-phase phosphoprotein 9 Hs.31324 zinc finger protein 155 (pHZ-96) Hs.61712 pyruvate dehydrogenase kinase, Isoenzyme 1 Hs.103839 erythrocyte membrane protein band 4.1-like 3 Hs.292998 ESTs Hs.31476 Homo sapiens cDNA FLJ13872 fis, clone THYRO1001322 Hs.26471 Homo sapiens clone HQ0692
-3.11 -3.08 -3.06 -3.06 -3.06 -3.05 -3.04 -3.04	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvale dehydrogenase kinase, Isoenzyme 1 Hs. 103839 erythrocyte membrane protein band 4.1-like 3 Hs. 292998 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fis, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs. 79993 peroxisomal biogenesis factor 7
-3.11 -3.08 -3.06 -3.06 -3.06 -3.05 -3.04 -3.04 -3.03 -3.03	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvale dehydrogenase kinase, Isoenzyme 1 Hs. 103839 erythrocyte membrane protein band 4.1-like 3 Hs. 292998 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fis, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs. 79993 peroxisomal biogenesis factor 7
-3.11 -3.08 -3.06 -3.06 -3.06 -3.05 -3.04 -3.04 -3.03 -3.03 -3.03	Hs.86178 M-phase phosphoprotein 9 Hs.31324 zinc finger protein 155 (pHZ-96) Hs.61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs.103839 erythrocyte membrane protein band 4.1-like 3 Hs.292998 ESTs Hs.31476 Homo sapiens cDNA FLJ13872 fis, clone THYRO1001322 Hs.26471 Homo sapiens clone HQ0692 Hs.100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs.79993 peroxisomal biogenesis factor 7 Hs.82919 cullin 2
-3.11 -3.08 -3.06 -3.06 -3.06 -3.05 -3.04 -3.04 -3.03 -3.03 -3.03 -3.03	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 165 (pHZ-96) Hs. 61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs. 103839 erythrocyte membrane protein band 4.1-like 3 Hs. 29298 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fls, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs. 79993 peroxisomal biogenesis factor 7 Hs. 82919 cullin 2 Hs. 1975 hypothetical protein FLJ21007 Hs. 118738 KIAA0800 gene product
-3.11 -3.1 -3.08 -3.06 -3.06 -3.05 -3.04 -3.03 -3.03 -3.03 -3.03 -3.02 -3.01 -3.01	Hs.86178 M-phase phosphoprotein 9 Hs.31324 zinc finger protein 155 (pHZ-96) Hs.61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs.10339 erythrocyte membrane protein band 4.1-like 3 Hs.292998 ESTS Hs.31476 Homo sapiens cDNA FLJ13872 fls, clone THYRO1001322 Hs.26471 Homo sapiens clone HQ0692 Hs.100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs.79993 peroxisomal biogenesis factor 7 Hs.82919 cullin 2 Hs.1975 hypothetical protein FLJ21007 Hs.118738 KIAA0800 gene product Hs.222306 hypothetical protein MGC3329
-3.11 -3.08 -3.08 -3.06 -3.06 -3.05 -3.04 -3.04 -3.03 -3.03 -3.02 -3.01 -3.02	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs. 103839 erythrocyte membrane protein band 4.1-like 3 Hs. 29298 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fis, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs. 79993 peroxisomal biogenesis factor 7 Hs. 82919 cullin 2 Hs. 1975 hypothetical protein FLJ21007 Hs. 118738 KIAA0800 gene product Hs. 222306 hypothetical protein MGC3329 Hs. 100090 tetraspan 3
-3.11 -3.16 -3.06 -3.06 -3.05 -3.04 -3.03 -3.03 -3.03 -3.03 -3.02 -3.01 -3.02 -3.01 -3.02 -3.09 -3	Hs.86178 M-phase phosphoprotein 9 Hs.31324 zinc finger protein 155 (pHZ-96) Hs.61712 pyruvate dehydrogenase kinase, isoenzyme 1 His.103839 erythrocyte membrane protein band 4.1-like 3 Hs.292998 ESTs Hs.31476 Homo sapiens cDNA FLJ13872 fis, clone THYRO1001322 Hs.26471 Homo sapiens clone HQ0692 Hs.100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs.79993 peroxisomal biogenesis factor 7 Hs.82919 cullin 2 Hs.1975 hypothetical protein FLJ21007 Hs.118738 KIAA0800 gene product Hs.222306 hypothetical protein MGC3329 Hs.10090 tetraspan 3 Hs.18889 DKFZP434M183 protein
-3.11 -3.08 -3.06 -3.06 -3.05 -3.04 -3.03 -3.03 -3.03 -3.03 -3.02 -3.01 -3.02 -3.01 -3.02 -3.01 -3.02 -3.01 -3.02 -3.05 -3.06 -3.08 -3.08 -3.08 -3.09 -3	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs. 10339 erythrocyte membrane protein band 4.1-like 3 Hs. 292998 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fts, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 106602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs. 79993 peroxisomal biogenesis factor 7 Hs. 82919 cullin 2 Hs. 1975 hypothetical protein FLJ21007 Hs. 118738 KIAA0800 gene product Hs. 222306 hypothetical protein MGC3329 Hs. 100090 tetraspan 3 Hs. 18889 DKFZP434M183 protein Hs. 20019 hemochromatosis
-3.11 -3.08 -3.06 -3.06 -3.05 -3.04 -3.03 -3.03 -3.02 -3.01 -3 -2.99 -2.98 -2.98	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs. 103839 erythrocyte membrane protein band 4.1-like 3 Hs. 292998 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fls, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 700602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs. 79993 peroxisomal biogenesis factor 7 Hs. 82919 cullin 2 Hs. 1975 hypothetical protein FLJ21007 Hs. 118738 KIAA0800 gene product Hs. 222306 hypothetical protein MGC3329 Hs. 100090 tetraspan 3 Hs. 18889 DKFZP434M183 protein Hs. 20019 hemochromatosis Hs. 21811 hypothetical protein FLJ10374
-3.11 -3.08 -3.06 -3.06 -3.05 -3.04 -3.03 -3.03 -3.02 -3.01 -3 -2.99 -2.98 -2.98 -2.98	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs. 103839 erythrocyte membrane protein band 4.1-like 3 Hs. 292998 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fls, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs. 79993 peroxisomal biogenesis factor 7 Hs. 82919 cullin 2 Hs. 1975 hypothetical protein FLJ21007 Hs. 118738 KIAA0800 gene product Hs. 222306 hypothetical protein MGC3329 Hs. 100090 tetraspan 3 Hs. 18889 DKFZP434M183 protein Hs. 20019 hemochromatosis Hs. 21811 hypothetical protein FLJ10374 Hs. 308332 ESTs, Highly similar to A42735 ribosomal protein L10, cytosolic H.saplens
-3.11 -3.08 -3.08 -3.06 -3.06 -3.05 -3.04 -3.03 -3.03 -3.02 -3.01 -3 -2.99 -2.98 -2.98 -2.92 -2.92	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs. 103839 erythrocyte membrane protein band 4.1-like 3 Hs. 29298 ESTS Hs. 31476 Homo sapiens cDNA FLJ13872 fls, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 100602 MAD (mothers against decapentapleglc, Drosophila) homolog 7 Hs. 79993 peroxisomal biogenesis factor 7 Hs. 82919 cullin 2 Hs. 1975 hypothetical protein FLJ21007 Hs. 118738 KIAA0800 gene product Hs. 222306 hypothetical protein MGC3329 Hs. 100090 tetraspan 3 Hs. 18889 DKFZP434M183 protein Hs. 20019 hemochromatosis Hs. 21811 hypothetical protein FLJ10374 Hs. 308332 ESTs, Highly similar to A42735 ribosomal protein L10, cytosolic H.saplens Hs. 9003 hypothetical protein FLJ13868
-3.11 -3.08 -3.08 -3.06 -3.06 -3.05 -3.04 -3.03 -3.03 -3.02 -3.01 -3 -2.99 -2.98 -2.98 -2.98 -2.92 -2.99 -2.99	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs. 103839 erythrocyte membrane protein band 4.1-like 3 Hs. 292998 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fis, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs. 79993 peroxisomal biogenesis factor 7 Hs. 82919 cullin 2 Hs. 1975 hypothetical protein FLJ21007 Hs. 118738 KIAA0800 gene product Hs. 222306 hypothetical protein MGC3329 Hs. 10090 tetraspan 3 Hs. 18889 DKFZP434M183 protein Hs. 20019 hemochromatosis Hs. 21811 hypothetical protein FLJ10374 Hs. 308332 ESTs, Highly similar to A42735 ribosomal protein L10, cytosolic H.saplens Hs. 9003 hypothetical protein FLJ13868 Hs. 234265 DKFZP586G011 protein
-3.11 -3.1 -3.08 -3.06 -3.05 -3.04 -3.03 -3.03 -3.03 -3.09 -2.99 -2.98 -2.98 -2.89 -2.89	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvate dehydrogenase kinase, isoenzyme 1 His. 103839 erythrocyte membrane protein band 4.1-like 3 Hs. 292998 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fis, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs. 79993 peroxisomal biogenesis factor 7 Hs. 82919 cullin 2 Hs. 1975 hypothetical protein FLJ21007 Hs. 118738 KIAA0800 gene product Hs. 222306 hypothetical protein MGC3329 Hs. 10090 tetraspan 3 Hs. 18889 DKFZP434M183 protein Hs. 20019 hemochromatosis Hs. 21811 hypothetical protein FLJ10374 Hs. 308332 ESTs, Highly similar to A42735 ribosomal protein L10, cytosolic H.sapiens Hs. 9003 hypothetical protein FLJ13868 Hs. 234265 DKFZP586G011 protein Hs. 26468 amyloid beta (A4) precursor protein-binding, family A, member 2 (X11-like)
-3.11 -3.08 -3.06 -3.06 -3.05 -3.04 -3.03 -3.03 -3.02 -3.01 -3 -2.98 -2.98 -2.98 -2.92 -2.98 -2.98 -2.98 -2.98	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs. 10339 erythrocyte membrane protein band 4.1-like 3 Hs. 29298 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fis, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 106602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs. 7993 peroxisomal biogenesis factor 7 Hs. 82919 cullin 2 Hs. 1975 hypothetical protein FLJ21007 Hs. 118738 KIAA0800 gene product Hs. 222306 hypothetical protein MGC3329 Hs. 100090 tetraspan 3 Hs. 18889 DKFZP434M183 protein Hs. 20019 hemochromatosis Hs. 21811 hypothetical protein FLJ10374 Hs. 308332 ESTs, Highly similar to A42735 ribosomal protein L10, cytosolic H.saplens Hs. 234265 DKFZP586G011 protein Hs. 26468 amyloid beta (A4) precursor protein-binding, family A, member 2 (X11-like) Hs. 68398 period (Drosophila) homolog 1
-3.11 -3.08 -3.06 -3.06 -3.04 -3.03 -3.02 -3.01 -3 -2.99 -2.98 -2.98 -2.98 -2.98 -2.98 -2.98 -2.88	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs. 103839 erythrocyte membrane protein band 4.1-like 3 Hs. 292998 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fls, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs. 79993 peroxisomal biogenesis factor 7 Hs. 82919 cullin 2 Hs. 1975 hypothetical protein FLJ21007 Hs. 118738 KIAA0800 gene product Hs. 222306 hypothetical protein MGC3329 Hs. 100090 tetraspan 3 Hs. 18889 DKFZP434M183 protein Hs. 20019 hemochromatosis Hs. 21811 hypothetical protein FLJ10374 Hs. 308332 ESTs, Highly similar to A42735 ribosomal protein L10, cytosolic H.sapiens Hs. 9003 hypothetical protein FLJ13868 Hs. 234265 DKFZP586G011 protein Hs. 26468 amyloid beta (A4) precursor protein-binding, family A, member 2 (X11-like) Hs. 63398 period (Drosophila) homolog 1 Hs. 153639 hypothetical SBBI03 protein
-3.11 -3.08 -3.06 -3.06 -3.05 -3.04 -3.03 -3.03 -3.02 -3.01 -3 -2.98 -2.98 -2.98 -2.92 -2.98 -2.98 -2.98 -2.98	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs. 103839 erythrocyte membrane protein band 4.1-like 3 Hs. 292998 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fls, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 100602 MAD (mothers against decapentapleglc, Drosophila) homolog 7 Hs. 79993 peroxisomal biogenesis factor 7 Hs. 82919 cullin 2 Hs. 1975 hypothetical protein FLJ21007 Hs. 118738 KIAA0800 gene product Hs. 222306 hypothetical protein MGC3329 Hs. 100090 tetraspan 3 Hs. 18889 DKFZP434M183 protein Hs. 20019 hemochromatosis Hs. 21811 hypothetical protein FLJ10374 Hs. 308332 ESTs, Highly similar to A42735 ribosomal protein L10, cytosolic H.saplens Hs. 9003 hypothetical protein FLJ13868 Hs. 234265 DKFZP586G011 protein Hs. 26468 amyloid beta (A4) precursor protein-binding, family A, member 2 (X11-like) Hs. 58398 period (Drosophila) homolog 1 Hs. 153639 hypothetical SBBIO3 protein Hs. 154019 Homo sapiens clone 23551 mRNA sequence
-3.11 -3.08 -3.06 -3.06 -3.04 -3.03 -3.02 -3.01 -3 -2.99 -2.98 -2.98 -2.98 -2.98 -2.98 -2.98 -2.88	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvate dehydrogenase kinase, isoenzyme 1 His. 103839 erythrocyte membrane protein band 4.1-like 3 Hs. 292998 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fis, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 100602 MAD (mothers against decapentaplegic, Drosophila) homolog 7 Hs. 79993 peroxisomal biogenesis factor 7 Hs. 82919 cullin 2 Hs. 1975 hypothetical protein FLJ21007 Hs. 118738 KIAA0800 gene product Hs. 222306 hypothetical protein MGC3329 Hs. 10090 tetraspan 3 Hs. 18889 DKFZP434M183 protein Hs. 20019 hemochromatosis Hs. 21811 hypothetical protein FLJ10374 Hs. 308332 ESTs, Highly similar to A42735 ribosomal protein L10, cytosolic H.sapiens Hs. 9003 hypothetical protein FLJ13868 Hs. 234265 DKFZP586G011 protein Hs. 26468 amyloid beta (A4) precursor protein-binding, family A, member 2 (X11-like) Hs. 1536399 hypothetical SBI03 protein Hs. 1536399 hypothetical SBI03 protein Hs. 184019 Homo sapiens clone 23551 mRNA sequence Hs. 5378 spondin 1, (F-spondin) extracellular matrix protein
-3.11 -3.08 -3.06 -3.06 -3.04 -3.03 -3.03 -3.02 -3.01 -3 -2.99 -2.98 -2.98 -2.98 -2.88 -2.88	Hs. 86178 M-phase phosphoprotein 9 Hs. 31324 zinc finger protein 155 (pHZ-96) Hs. 61712 pyruvate dehydrogenase kinase, isoenzyme 1 Hs. 103839 erythrocyte membrane protein band 4.1-like 3 Hs. 292998 ESTs Hs. 31476 Homo sapiens cDNA FLJ13872 fls, clone THYRO1001322 Hs. 26471 Homo sapiens clone HQ0692 Hs. 100602 MAD (mothers against decapentapleglc, Drosophila) homolog 7 Hs. 79993 peroxisomal biogenesis factor 7 Hs. 82919 cullin 2 Hs. 1975 hypothetical protein FLJ21007 Hs. 118738 KIAA0800 gene product Hs. 222306 hypothetical protein MGC3329 Hs. 100090 tetraspan 3 Hs. 18889 DKFZP434M183 protein Hs. 20019 hemochromatosis Hs. 21811 hypothetical protein FLJ10374 Hs. 308332 ESTs, Highly similar to A42735 ribosomal protein L10, cytosolic H.saplens Hs. 9003 hypothetical protein FLJ13868 Hs. 234265 DKFZP586G011 protein Hs. 26468 amyloid beta (A4) precursor protein-binding, family A, member 2 (X11-like) Hs. 58398 period (Drosophila) homolog 1 Hs. 153639 hypothetical SBBIO3 protein Hs. 154019 Homo sapiens clone 23551 mRNA sequence



	Hs.6179 DEADH (Asp-Glu-Ala-AspHis) box polypeptide 17 (72kD)
-2.8	Hs.323664 nudix (nucleoside diphosphate linked moiety X)-type motif 6
-2.79	Hs.64096 KIAAD427 gene product
-2.78	Hs.94037 hypothetical protein FLJ23053
-2.75	Hs.74861 activated RNA polymerase II transcription cofactor 4
-2.74	Hs.78946 cullin 3
-2.74	Hs.292853 ESTs
-2.73	Hs.300772 tropomyosin 2 (beta)
-2.73	Hs.69745 ferredoxin reductase
-2.73	Hs.75694 mannose phosphate Isomerase
-2.71	Hs.113 epoxide hydrolase 2, cytoplasmic
-2.71	Hs.112434 Novel human gene mapping to chomosome 13
-2.71	Hs.27371 Homo saplens mRNA; cDNA DKFZp566J123 (from clone DKFZp568J123)
-2.7	Hs.287437 Homo sapiens cDNA FLJ11662 fls, clone HEMBA1004629
	gb:BC006241.1 /DEF=Horno sapiens, hypothetical protein FLJ10647, clone MGC:11318, mRNA, complete cds.
	Hs.301011 KIAA0876 protein
	Hs.142245 HERV-H LTR-associating 3
	Hs.283032 hypothetical protein PRO2015
	Hs.182595 dynein, axonemal, light polypeptide 4
	Hs.9071 progesterone membrane binding protein
	gb:U31110.1 /DEF=Human alternatively spliced trp-1 protein and unspliced trp-1 protein (trp-1) mRNA,
	complete cds.
-2.62	Hs.168670 peroxisomal farnesylated protein
-2.6	Hs.66191 Homo sapiens clone 24675 mRNA sequence
-2.6	Hs.9196 hypothetical protein
-2.58	Hs.184376 synaptosomal-associated protein, 23kD
-2.58	Hs.27610 retinoic acid- and interferon-inducible protein (58kD)
	Hs.77868 ORF
	Hs.77152 minichromosome maintenance deficient (S. cerevisiae) 7
	Hs.115537 putative dipeptidase
	Hs.2006 glutathione S-transferase M3 (brain)
	Hs.7854 zinciron regulated transporter-like
	Hs.19561 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 7 (14.5kD, B14.5a)
	Hs.72980 Protein P3
	Hs.262023 Homo sapiens mRNA; cDNA DKFZp564N1623 (from clone DKFZp564N1623); complete cds
	Hs.79368 epithelial membrane protein 1
	Hs.23964 sin3-associated polypeptide, 18kD
	Hs.966 coilin
	Hs.15898 2,4-dienoyl CoA reductase 2, peroxisomal
	Hs.118722 fucosyltransferase 8 (alpha (1,6) fucosyltransferase)
	Hs.278503 regulated in glioma
-2.48	Hs.180338 tumor necrosis factor receptor superfamily, member 12 (translocating chain-association membrane
-2.48	protein) Hs.46465 T-cell, immune regulator 1
	Hs.100915 peroxisomal biogenesis factor 16
	Hs.119274 RAS p21 protein activator (GTPase activating protein) 3 (Ins(1,3,4,5)P4-binding protein)
	Hs.50748 chromosome 21 open reading frame 18
	Hs.25155 neuroepithelial cell transforming gene 1
-2.46	Hs.108779 DKFZP586E1519 protein
-2.46	Hs.82527 sialyltransferase 8 (alpha-N-acetylneuraminate: alpha-2,8-sialytransferase, GD3 synthase) A
	Hs.99491 RAS guanyl releasing protein 2 (calcium and DAG-regulated)
-2.44	Hs.143131 glycoprotein A33 (transmembrane)
-2.42	gb:BC006332.1 /DEF=Homo sapiens, clathrin, light polypeptide (Lcb), clone MGC:12930, mRNA, complete
72.72	gs.boologge. 175 Er = 110110 sapiens, claulin, light polypopude (Ecs), clone incontacto, fill de i, complete
-2.4	Hs.7594 solute carrier family 2 (facilitated glucose transporter), member 3
-2.4	Hs.15984 pp21 homolog
-2.39	Hs.78056 cathepsin L
-2.39	Hs.152981 CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1
	Hs.271699 polymerase (DNA directed) lota



2 20	Hs.101299 cullin 5
-2.38	
	Hs.49994 Homo sapiens, clone MGC:10871, mRNA, complete cds Hs.211522 /len=545
2.35	Hs.76297 G protein-coupled receptor kinase 6
-2.34	Hs.65648 RNA binding motif protein 8A
-2.33	
	The state of the s
-2.32	
-2.31	gb:NM_031208.1 /DEF=Homo sapiens hypothetical protein FLJ12525 (FLJ12525), mRNA.
-2.31	Hs.29725 hypothetical protein FLJ13197
-2.31	Hs.278973 angiopoietin-3
-2.31	Hs.236642 3-hydroxyisobutyryl-Coenzyme A hydrolase
-2.3	Hs.111323 Protein Inhibitor of activated STAT X
-2.3	Hs.15106 chromosome 14 open reading frame 1
-2.29	Hs.5022 imprinted in Prader-Willi syndrome
-2.28	Hs.13980 ubiquitously transcribed tetratricopeptide repeat gene, X chromosome Hs.306533 Untitled
-2.28	
-2.26	Hs.285737 Homo saplens cDNA: FLJ20895 fis, clone ADKA03483 Hs.183291 zinc finger protein 268
-2.27	Hs.82919 cullin 2
-2.26	Hs.5881 ELL gene (11-19 lysine-rich leukemia gene)
-2.26	Hs.294014 ESTs
-2.25	Hs.62187 phosphatidylinositol glycan, class K
	Hs.1117 tripeptidyl peptidase II
-2.22	Hs.153299 DOM-3 (C. elegans) homolog Z
-2.22	Hs.250619 phorbolin-like protein MDS019
-2.22	Hs.301114 zinc finger protein 79 (pT7)
	Hs.300741 sorcin
	Hs.295923 seven in absentia (Drosophila) homolog 1
-2.21	Hs.17775 p75NTR-associated cell death executor; ovarian granulosa cell protein (13kD)
-2.2	Hs. 174185 ectonucleotide pyrophosphatasephosphodiesterase 2 (autotaxin)
	Hs.2864 early endosome antigen 1, 162kD
-2.19	Hs.321567 complexin 2
	Hs.31432 cardiac ankyrin repeat protein
	Hs.77508 glutamate dehydrogenase 1
	Hs. 293495 ESTs, Weakly similar to ALU1_HUMAN ALU SUBFAMILY J SEQUENCE CONTAMINATION
	WARNING ENTRY H.sapiens
-2.17	Hs.48924 KIAA0512 gene product; ALEX2
-2.17	Hs.16079 hypothetical protein FLJ10233
	Hs.81424 ubiquitin-like 1 (sentrin)
-2.16	Hs.324730 glutathione S-transferase M1
-2.15	gb:AF019888.1 /DEF=Homo sapiens Arp23 complex 20 kDa subunit (ARC20) mRNA, complete cds.
-2.15	Hs.82143 E74-like factor 2 (ets domain transcription factor)
	Hs.76297 G protein-coupled receptor kinase 6
	Hs.241053 ESTs
-2.13	Hs. 207805 Homo saplens mRNA; cDNA DKFZp564I088 (from clone DKFZp564I068)
-2.13	Hs.193163 bridging Integrator 1
-2.12	Hs.323820 Homo sapiens GL013 mRNA, complete cds
	Hs.194637 BANP homolog, SMAR1 homolog
	Hs.6657 /len=657
	Hs.920 modulator recognition factor I
	Hs.5997 hypothetical protein FLJ13078
	Hs.147916 DEADH (Asp-Glu-Ala-AspHis) box polypeptide 3
	Hs.237146 hypothetical protein FLJ12752
	Hs.7236 CGI-25 protein
-2.1	Hs.3530 TLS-associated serine-arginine protein 2
	Hs.221040 HBS1 (S. cerevisiae)-like
-2.1	Hs.322645 Homo sapiens mRNA; cDNA DKFZp586J101 (from clone DKFZp586J101)



-2.0	Hs.57553 tousled-like kinase 2
-2.08	He 71/46 hypothetical article F1 144/50
-2.08	
-2.07	
-2.06	
	PROTEIN 83
-2.06	
-2.06	Hs.283709 lipopolysaccharide specific response-7 prolein
-2.05	Hs.110796 SAR1 protein
-2.05	The state of the grade product
-2.04	Hs.271954 pan-hematopoletic expression
-2.04	Hs.279819 APR-1 protein
-2.03	Hs.279932 CGI-105 protein
-2.02	
-2.01	Hs.13225 UDP-Gal:betaGlcNAc beta 1.4- galactosyltransferase, polymentida 4
-2.01	Hs. 180338 tumor necrosis factor receptor superfamily, member 12 (translocating chain-association membrane protein)
-2.01	Hs.16193 Homo sapiens mRNA; cDNA DKFZp586B211 (from clone DKFZp586B211)
-2	Hs.7158 DKFZP566H073 protein
-2	Hs.5002 copper chaperone for superoxide dismutase
-2	Hs.279777 hypothetical protein
-1.99	Hs.264330 N-acylsphingosine amidohydrolase (acid ceramidase)-like
-1.97	Hs.9456 SWISNE related, matrix associated actin devaluate (acid ceramidase)-like
-1.97	Hs.9456 SWISNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 6 Hs.302114 Human DNA sequence from clone RP5-843L14 on chromosome 20. Contains ESTs, STSs and
	GSSs. Contains a novel gene and the 5 part of a gene for a novel protein similar to X-linked ribosomal protein 4
-1.97	Hs.102 aminomethyltransferase (glycine cleavage system protein T)
-1.97	Hs.75790 phosphatidylinositol glycan, class C
-1.96	Hs.180338 tumor necrosis factor receptor superfamily, member 12 (translocation chair association members)
-1.95	[protein)
-1.93	Hs.81687 non-metastatic cells 3, protein expressed in
-1.92	Hs.31659 thyroid hormone receptor-associated protein, 95-kD subunit
-1.92	Hs.99847 peroxisome biogenesis factor 1
-1.92	Hs.46736 hypothetical protein FLJ23476
-1.91	Hs.77252 fragile histidine triad gene
-1.91	Hs.153022 TATA box binding protein (TBP)-associated factor, RNA polymerase I, C, 110kD
-1.91	Hs.66180 nucleosome assembly protein 1-like 2
-1.9	Hs.8198 zinc finger protein 204
-1.9	electron-transferring-flavoprotein dehydrogenase
-1.9	Hs.29288 hypothetical protein FLJ21865 Hs.244 amino-terminal enhancer of split
-1.89	he 27002 offets over the feet of the feet
-1.89	Hs.279902 cofactor required for Sp1 transcriptional activation, subunit 9 (33kD) Hs.119699 hypothetical protein FLJ12969
-1.89	Hs.156667 KIAA1536 protein
-1.88	Hs.48433 endocrine regulator
-1.88	Hs.8124 PH domain containing protein in retina 1
-1.87	Hs.293219 ESTs
-1.86	Hs.110298 hypothetical protein FLJ13322
-1.86	Human clone 23719 mRNA sequence
-1.88	Hs.152151 plakophilin 4
	Hs.24284 ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase)-like 2
-1.86	Hs.9884 spindle pole body protein
	Hs.122607 B-cell CLLlymphoma 9
	Hs.7194 CGI-74 protein
	Hs.322478 KIAA0117 protein
	Hs. 12835 A kinase (PRKA) anchor protein 7
	Hs. 43803 leukocyte-associated ig-like receptor 2
-1.83	Hs.66708 vesicle-associated membrane protein 3 (cellubrevin)
	Hs.249495 heterogeneous nuclear ribonucleoprotein A1



-1.82	Hs.266933 hect domain and RLD 2
-1.81	
-1.81	
-1.8	Hs.177486 amyloid beta (A4) precursor protein (protease nexin-II, Alzhelmer disease) Hs.300684 calcitonin gene-related peptide-receptor component protein
-1.8	Hs.18490 hypothetical protein FLJ20452
-1.8	Hs.279785 putative secreted protein
-1.8	Hs.17409 cysteine-rich protein 1 (intestinal)
-1.79	113.17400 Cysteme-rich protein 1 (intestina)
	Hs.301201 Homo sapiens cDNA FLJ14152 fis, clone MAMMA1003089 Hs.16803 LUC7 (S. cerevisiae)-like
-1.79	Hs.265561 CD2-associated protein
-1.79	19. 20006 Impact to the Artist Control of th
-1.79	Hs.30696 transcription factor-like 5 (basic helix-loop-helix) Hs.46907 /len=607
	Hs.240112 KIAA0276 protein
-1.77	The state of the s
-1.77	Hs.330056 hypothetical protein FLJ22795
-1.77	Hs.5353 caspase 10, apoptosis-related cysteine protease
	Hs.75061 macrophage myristoylated alanine-rich C kinase substrate
-1.77	gb:NM_031214.1 /DEF=Homo sapiens hypothetical protein (AF311304), mRNA.
	Hs.285848 KIAA1454 protein
	Hs.75692 asparagine synthetase
	Hs.36972 CD7 antigen (p41)
-1.75	Hs.83958 transducin-like enhancer of split 4, homolog of Drosophila E(sp1)
	Hs.64310 interleukin 11 receptor, alpha
-1.74	Hs. 198726 vasoactive intestinal peptide receptor 1
	Hs.194329 hypothetical protein FLJ21174
-1.74	Hs.102456 survival of motor neuron protein Interacting protein 1
-1.74	Hs.26471 Homo sapiens clone HQ0692
-1.74	Homo sapiens Chromosome 16 BAC clone CIT987SK-A-67A1, complete sequence.
	Hs.158195 heat shock transcription factor 2
-1.74	Hs.306173 phosphatidylinositol glycan, class C, pseudogene 1
	Hs.9452 KIAA0770 protein
-1.73	Hs.31834 Homo sapiens clone 25129 mRNA sequence
-1.73	Hs.77602 damage-specific DNA binding protein 2 (48kD)
	Hs.20952 Homo sapiens clone 24411 mRNA sequence
	Hs.9880 peptidyl prolyl Isomerase H (cyclophilin H)
-1.72	Hs.236642 3-hydroxyisobutyryl-Coenzyme A hydrolase
	Hs.78409 collagen, type XVIII, alpha 1
	Hs.4764 KIAA0763 gene product
-1.72	Hs.1602 dihydropyrimidine dehydrogenase
-1.72	Hs.404 myeloidlymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 3
-1.71	Hs.301667 Homo saplens mRNA; cDNA DKFZp566I043 (from clone DKFZp566I043)
-1.71	Hs.180895 putative brain nuclearly-targeted protein
	Hs.128646 hypothetical protein FLJ20639
	Hs.184736 hypothetical protein FLJ10097
-1.71	Hs.9222 estrogen receptor binding site associated, antigen, 9
-1.7	Hs.30783 hypothetical protein FLJ20850
-1.7	Hs.110477 dolichyl-phosphate mannosyltransferase polypeptide 3



Table 7

Chemotaxis versus Fugetaxis: Downstream transcriptional changes

Actin/Cytoskeletal

Increased in Chemotaxis

Increased in Fugetaxis

	Spectrin beta, non-erythrocytic 1	3.05	Microtubule-associated protein, RPEB3
	Myosin, light polypeptide 5, regulatory	2.81	Plectin 1, intermediate filament binding protein
	Keratin 1	2.46	Microtubule-associated protein 1A like protein (MILP)
	Plakophilin 4	2.20	Ankyrin 1, erythrocytic
1.81	Capping protein (actin filament), muscle		Capping protein (actin filament), gelsolin-like

ECM/Adhesion

Increased in Chemotaxis

Increased in Fugetaxis

14.00	Collagen, type XVIII, alpha 1	11.00	Chitinase 3-like 1 (cartilage glycoprotein-39)
	Spondin 1 (f-spondin)	3.71	Epithelial V-like antigen 1
	CD31 adhesion molecule	2.99	Vascular endothelial growth factor (VEGF)
	Tetraspan 3		Fibulin 1
2.13	Glycoprotein A33	1.70	Carcinoembryonic antigen-related cell
L			adhesion molecule 3

T-cell activation

Increased in Chemotaxis

Increased in Fugetaxis

		Introduct in I ugotaxis	
	Stat2 type a	4.71 MHC class II transactivator	
	Interleukin 21 receptor	2.65 T-cell receptor, alpha chain	
2.20	T-cell, immune regulator 1	2.00 T-cell activation, increased late expressi	on
		1.88 MKP-1 like protein tyrosine phosphata	se
		1.72 T-cell receptor gamma constant 2	
		1.70 T-cell receptor gamma locus	

Migration related Increased in Chemotaxis

Increased in Fugetaxis

			asou iii i agotaxis
2.90	angio-associated, migratory cell protein	5.15	chemokine (C-X3-C) receptor 1
		3.24	EphA1 receptor
i		2.40	ephrin-A5

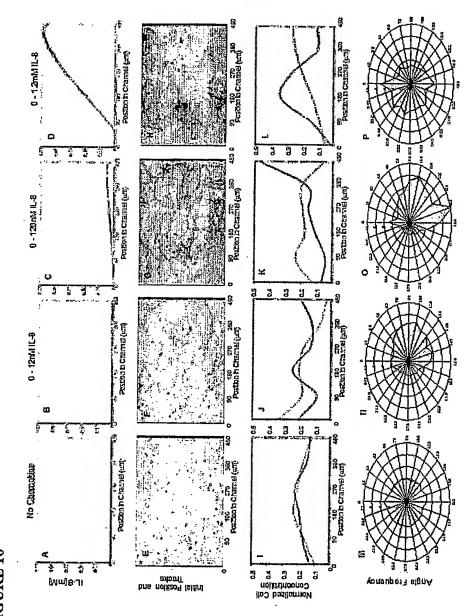
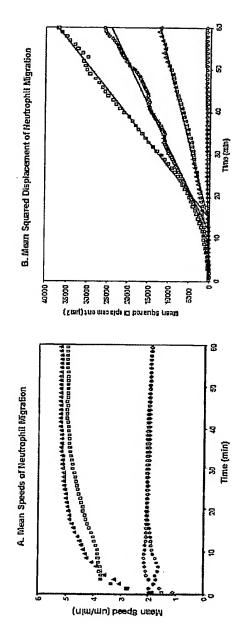
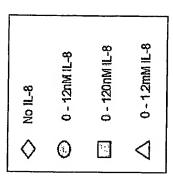


FIGURE 10



FIGURE 11







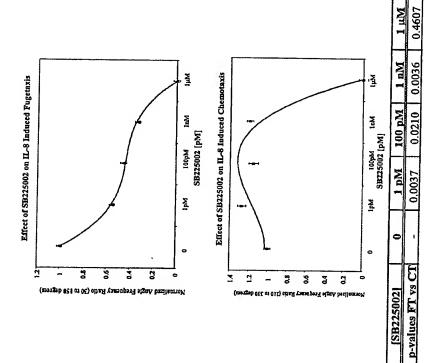


FIGURE 12



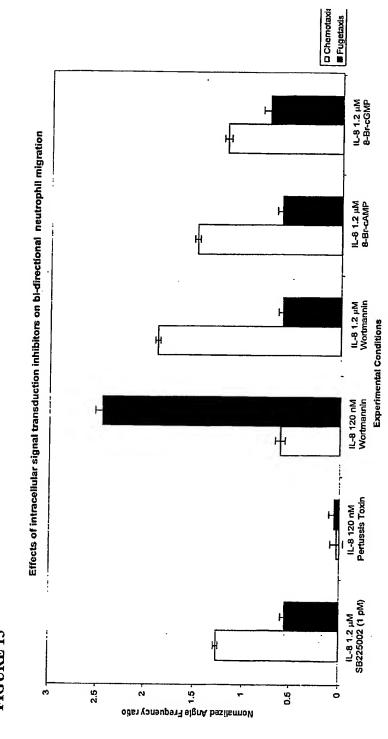


FIGURE 13

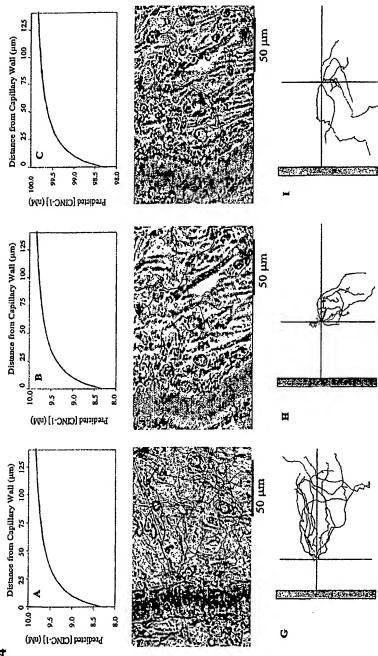


FIGURE-14-



FIGURE 15 TABLE 8

Generated Gra	Generated Gradient Parameters	Number of	Mean Speed (µm/min)	Random Motility	Persistence	Mean	p-values	Sectional MCI	MCI	p-values Sectional MCI
Peak (IL-8)	Gradient (Δ nM μm)	Cells	++- SD	(µm²/min)	Time (min)	Index (MCI)	(vs. no IL-8)	(low, mld, high)	, high)	(low to mid, low to high, mid to high)
No IL-8	0	126	2.12 +/- 0.05	4.7	0	-0.02 +/- 0.01	,	-0.03, -0.03, -0.01	5, -0.01	0.43, 0.15, 0.16
120 nM IL-8	0	20	4.13 +/- 0.89	34.7	4.5	-0.00 +/- 0.02	0.138	-0.00, -0.01, 0.02	0.02	0.48, 0.38, 0.37
12 nM IL-8	0.0267	92	1.96 +/- 0.05	168.7	21.5	0.32 +/- 0.03	< 0.0001	0.40, 0.28,	1, 0.21	0.04, 0.01, 0.25
120 nM IL-8	0.267	28	4.77 +/- 0.06	217.9	21.8	0.39 +/- 0.03	< 0.0001 0.44, 0.42, 0.25	0.44 0.4	0.25	0.39, 0.001, 0.01
1.2 µM IL-8	2.67	8	5,10 +/- 0.04	67.2	10.9	-0.13 +/- 0.02	< 0.0001	0.20, -0.14	0.22	<0.0001 0.20, -0.14, -0.22 < 0.0001, < 0.0001, 0.03



FIGURE 16 TABLE 9

MCI p-values vs (10 nM t0-90)				0.075		< 0.0001	
Mean Chemotropism Index (MCI) +/- s.e.		0.55 +/- 0.08 0.51 +/- 0.08		0.56 +/- 0.09 0.32 +/- 0.06		0.67 +/- 0.05 -0.35 +/- 0.12	
Persistence Index +/- s.e.		0.55 +/- 0.08		0.56 +/- 0.09		0.67 +/- 0.05	
Persistence Time (min)	.07	4.27		2.31		5.25	
Random Motility Coefficient (µm²/min)	497 AE	127.45		64.57		135.11	
Mean Speed (μm/min) +/- s.e.	771 +/- 063	00.0	7.70 +/- 0.43		7.87 +/- 0.87		
Number of Cell Tracks/steps Analysed	12/2160		6/1080	2001,	4/360		
Superfusion [CINC-1] (nM)	10		10	200	100		